



CANON LENS 50mm 1:0.95 No. 23569

LENS MADE IN JAPAN

Canon Inc.

# Canon

...THE IMAGE OF  
PRECISION

# Canon

... THE IMAGE OF PRECISION

Canon Inc., the largest camera manufacturer with the latest production facilities in Asia, ranks among the tops in the photographic world.

The following story shows how the camera company has attained this enviable position.

Canon originated 37 years ago, in 1933, as a small group of people devoted to the study and manufacture of 35 mm still cameras. Two years later, in 1935, the group successfully developed the first product which embodied the results of its painstaking research efforts. The camera was named KWANON. It was a unique 35 mm camera with a high-speed focal plane shutter (maximum shutter speed: 1/500th of a second) and the fastest standard lens in those days (F 3.5). In 1937, the group invested \$ 500,000 in production facilities and began operating as an incorporated company. (And the name KWANON meaning Goddess of Mercy was changed to the now world-famous CANON which can be defined as meaning «Products of high quality».)

In 1938 the company planned to design and manufacture lenses besides producing cameras. In the next year, they began introducing a number of models equipped with lenses developed by themselves. In the same year Canon perfected the first X-ray camera in Japan as a significant advance into the field of medical appliances.

In 1945 Canon resumed the production of precision 35 mm still cameras inspite of the serious shortage of materials. Cameras steadily stimulated domestic and foreign demands as one of the most popular products of peacetime industries. Canon cameras found markets in all parts of the world.

In 1955 Canon opened an office in New York to reinforce its sales and service in the United States and also to pave the way for increased sales in overseas markets.

Canon began to manufacture 8 mm movie cameras and projectors and TV camera lenses in 1956. It also broke new ground in the field of the single-lens reflex still camera.

In 1957 Canon established an office in Geneva, Switzerland, as the base of operation in Europe. In August 1968, the office in Geneva moved to Amsterdam, Holland to further strenghten the Sales Network in Europe. In 1961, Canon Latin America Inc. was set up in Panama for better sales and services in Latin America. In this way Canon established an overseas sales network which befits cameras in world-wide demand.

Canon also embarked on the manufacture of medium priced models such as 35 mm EE cameras and the half-frame DEMI series. The CANONET, the first fully automatic EE camera was a pioneer and its debut ushered in a new camera age. To produce such cameras CANON built a 330,000-sq. m. factory park in a scenic district in the suburbs of Tokyo.

Canon has also made strenuous efforts to develop special appliances other than cameras by combining its precision engineering and lens optics techniques. Canon Microfilm System, Electronic Calculators Canola and many other special appliances are making great contributions to industry, the medical profession and financial circles.

Canon has made remarkable progress through the successive development of new products, technical innovations, the reinforcement of its facilities and increased sales. It is now continuing its endless advance as a camera company which serves the whole world.





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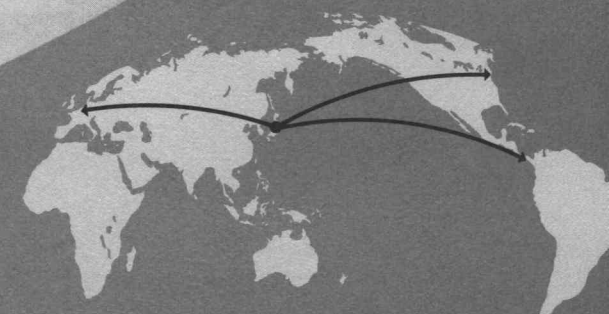


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The Big Three Routes of **Canon**



# Canon

# YESTERDAY



**Canon** 'S ORIGINAL CAMERA

# Canon TODAY





Canon  
FT

## A camera of the highest precision

A single-lens reflex camera which meets all technical requirements. An easy-to-hold, compact body with all functions ideally arranged. 19 mm super-wide angle and many other interchangeable lenses and accessories are available to enable the photographer to cope with any situation.



### Specifications:

**Type:** 35 mm full frame single-lens reflex camera with focal plane shutter.  
**Viewfinder:** Eye-level system using pentagonal prism. Waist-Level Viewer 2 can be attached.  
**Mirror:** Shockless quick-return system. Mirror can be locked upwards.  
**Standard Lenses:** FL 50 mm F 1.8, FL 50 mm F 1.4 II, FL 55 mm F 1.2.  
**Aperture:** Fully automatic pre-set aperture built in. Pre-set release possible.  
**Shutter:** 1/1000-1 sec. and B (T) X.  
**Exposure Meter:** Zero-method type CdS meter coupled to shutter dial and aperture setting. Through-the-lens (TTL) system. EV 3-18 (ASA 100 film at F 1.4) one-stage system. Utilizes one 1.3 V MD type (No. 625) mercury battery.  
**Exposure Control:** Exposure meter functions with the CdS actuating lever. Battery checker built in.  
**Film Speeds:** ASA 25-2000, DIN 15-34.  
**Measuring of Ultra-Low Illumination:** EV 2.5 1/4 sec.-EV -3.5 15 sec. at F 1.2 can be measured with the attachment of Canon Booster. (Auxiliary meter for extremely dim light condition.)  
**Size:** 144 x 93 x 43 mm.  
**Weight:** 740 grams (body only).

## Canon Interchangeable Lenses

The introduction of CANON lenses followed four years after the debut of the first CANON camera. Since that time they have become universally accepted by the photographic world and have been acclaimed by both amateurs and professionals alike. In particular they have become world renowned for their advanced systems.

Each Canon lens is perfect in aberration correction and the fastest of its kind in the world in full aperture lens speed. In designing lenses, Canon employs response function, lens coefficient and other contemporary theories. Canon lenses are designed automatically by electronic "brains" on the basis of the best data accumulated by Canon. In the actual production of lenses, Canon uses carefully selected materials, adequate quantities of rare-element glass, advanced grinding and skilled adjusting techniques.

Canon interchangeable lenses come with the standard screw mount (Leica mount) for the Canon 7 and 7S, or with the FL mount for the Canon Pellix QL, FT QL and other SLR cameras, as shown below.

Canon FL series of interchangeable lenses for Canon single-lens reflex camera have been developed as a result of Canon's outstanding research technology and adoption of highly reliable electronic computer.

Canon offers 30 kinds of interchangeable lenses for use with single-lens reflex camera, ranging from ultra wide angle lens 19 mm to ultra telephoto lens 5200 mm.

Canon also offers "Compact Lenses" in the categories of wide angle, telephoto and zoom lenses. They are FL 35 mm F 3.5, FL 135 mm F 3.5, FL 200 mm F 4.5 and FL 100-200 mm F 5.6. Furthermore, the Macro Canon Lens FL 50 mm F 3.5, which boasts superb resolving power, is conveniently used for performing macrophotography. Canon Inc., at the same time, works its way to improve standard lenses for higher contrast and resolution power. Aspheric lens FL 55 mm F 1.2 AL was added to Canon's superior interchangeable lenses.

### Telephoto Lens Using Artificial Crystal Fluorite Compact - High Resolving Power - Ultra-achromatic Canon FL-F 300 mm F 5.6, FL-F 500 mm F 5.6

Canon succeeded in the large-scale artificial crystallization of fluorite (CaF<sub>2</sub>) for making lenses with unique optical features. Through application of fluorite to optical glass, Canon made a breakthrough in the conventional conception of lenses and developed revolutionary long-telephoto lenses which are compact in size, they boast high resolution, ultra-achromatic and high contrast features.



### Canon ASPHERIC LENS, FL 55 mm F 1.2 AL

High-speed aspheric lens of new concept creates sharp image without flare even at full aperture opening.

### Specifications:

**Focal Length:** 55 mm.  
**Maximum Relative Aperture:** F 1.2.  
**Lens Composition:** 7 elements in 5 components, including 4 rare earth type glasses.  
**Coating:** Amber and purple.  
**Iris Operation:** Automatic/manual preset type with A-M ring.  
**Minimum Relative Aperture:** 16.  
**Distance Scale:** (m) 0.6-10, (ft) 2-30.  
**Angle of View:** Diagonal 43°, horizontal 36°, and vertical 25°.  
**Focusing Operation:** Straight double helical action.  
**Filter Size:** 58 mm.  
**Overall Size:** 52.5 mm long x 69 mm  $\phi$  (2-1/8" long x 2-3/4"  $\phi$ ).  
**Weight:** Approx. 480 grams (1 lb. 7/8 oz.).

Subject to alterations.





Table of interchangeable lenses for Canon single-lens reflex cameras

Lens	Type	Angle of view	Aperture system	Pre-set aperture release mechanism	Magnification	Lens composition	Minimum aperture	Distance scale		Attachment size (mm)		Hood	Case	Coating	Weight (grams)
								In feet	In meters	Cap size	Filter size				
FL19mm F3.5R	Super wide angle	96°	Automatic	By A-M ring	0.38x	11 elements in 9 components	16	1.75-20∞	0.5-7∞	80	Series No. 9	—	Exclusive	Amber	500
FL19mm F3.5	Super wide angle	96°	Manual	—	0.38x	9 elements in 7 components	16	1.75-20∞	0.5-7∞	60	58	—	Exclusive	Magenta, Purple	150
FL28mm F3.5	Super wide angle	75°	Automatic	By A-M ring	0.56x	7 elements in 7 components	16	1.5-10∞	0.4-3∞	60	58	W-60-B	C	Amber	240
FL35mm F2.5	Wide angle	64°	Automatic	By Aperture release ring	0.7x	7 elements in 5 components	16	1.5-10∞	0.4-3∞	60	58	W-60-A	C	Magenta	352
FL35mm F3.5	Wide angle	64°	Automatic	By A-M ring	0.7x	6 elements in 6 components	16	1.5-10∞	0.4-3∞	50	48	W-50-A	C	Purple Amber Multi-layer	270
FLP38mm F2.8	Wide angle	59°	Automatic	By Aperture release ring	0.76x	4 elements in 3 components	16	3-30∞	0.8-8∞	60	48	—	Exclusive	Magenta	210
FL50mm F3.5	Standard (Macro)	46°	Automatic	By A-M ring	1x	4 elements in 3 components	22	9.2in-20∞	0.234-5∞	60	58	S-60	Exclusive	Amber	295
FL50mm F1.8	Standard	46°	Automatic	By A-M ring	1x	6 elements in 4 components	16	2-30∞	0.6-10∞	50	48	S-50	C	Magenta, Purple	280
FL50mm F1.4 II	Standard	46°	Automatic	By A-M ring	1x	7 elements in 6 components	16	2-30∞	0.6-10∞	60	58	S-60	C	Amber, Purple	340
FL55mm F1.2	Standard	43°	Automatic	By A-M ring	1.1x	7 elements in 5 components	16	2-30∞	0.6-10∞	60	58	S-60	C	Purple, Amber	480
FL85mm F1.8	Long-focus	29°	Automatic	By Aperture release ring	1.7x	5 elements in 4 components	16	3.5-60∞	1-20∞	60	58	T-60-2	D	Magenta, Purple	445
FL100mm F3.5	Telephoto	24°	Automatic	By Aperture release ring	2x	5 elements in 4 components	22	3.5-30∞	1-10∞	50	48	T-50	H	Purple	278
FLM100mm F4	Macro and telephoto	24°	Manual or automatic	By A-M ring	1x-∞	5 elements in 3 components	22	Adjustable with bellows	—	50	48	T-50	C	Magenta	220
FL135mm F3.5	Telephoto	18°	Automatic	By A-M ring	2.7x	4 elements in 3 components	22	5-100∞	1.5-30∞	50	48	T-50	E	Magenta	434
FL135mm F2.5	Telephoto	18°	Automatic	By Aperture release ring	2.7x	6 elements in 4 components	16	5-100∞	1.5-30∞	60	58	T-60	F	Magenta	645
FL200mm F3.5	Telephoto	12°	Automatic	By Aperture release button	4x	7 elements in 5 components	22	8-100∞	2.5-30∞	60	58	Built-in	G	Magenta	680
FL200mm F4.5	Telephoto	12°	Automatic	By A-M ring	4x	5 elements in 4 components	22	8-100∞	2.5-30∞	50	48	Built-in	Exclusive	Magenta, Purple	555
FL55-135mm F3.5	Zoom	43°-18°	Automatic	By Aperture release button	1.1-2.7x	13 elements in 10 components	22	7-100∞	2-30∞	60	58	S-60	Exclusive	Amber	790
FL100-200mm F5.6	Zoom	24°-12°	Automatic	By A-M ring	2-4x	8 elements in 5 components	22	8-100∞	2.5-30∞	57	55	Built-in	Exclusive	Magenta	650
FL85-300mm F5	Zoom	29°-8°	Automatic	By Aperture release button	1.7-6x	15 elements in 9 components	22	12-200∞	4-50∞	75	72	Built-in	Exclusive	Magenta	1,840
R300mm F4	Long-telephoto	8°	Manual	—	6x	5 elements in 4 components	22	5	1.5	Special	48	Special	Special	Magenta	1,200
R400mm F4.5	Long-telephoto	6°	Manual	—	8x	5 elements in 4 components	22	10.2	3.1	Special	48	Special	Special	Magenta	1,700
R600mm F5.6	Extra-long-telephoto	4°	Manual	—	12x	2 elements in 1 components	32	20	6.4	Special	48	Special	Special	Purple	1,800
R800mm F8	Extra-long-telephoto	3°	Manual	—	16x	2 elements in 1 components	32	44.3	13.5	Special	48	Special	Special	Purple	1,900
R1000mm F11	Extra-long-telephoto	2.4°	Manual	—	20x	2 elements in 1 components	32	69	21	Special	48	Special	Special	Purple	1,800

Note: FLP 38mm F 2.8 is for use with Pelix QL. For lenses longer than 300mm, there are no distance scales. The shortest focusing distance is listed in the chart for reference.

### Specifications for FL-F 300 mm F 5.6

**Picture Size:** 24 × 36 mm.  
**Mount:** FL bayonet mount.  
**Focal Length:** 300 mm.  
**Maximum Aperture:** F 5.6.  
**Minimum Aperture:** F 22.  
**Lens Composition:** 6 components, 7 elements (including 2 fluorites and 2 new type glasses).  
**Angle of View:** 8° (in diagonal line direction).  
**Coating:** Magenta.  
**Focusing:** Helicoid, 307° rotating angle.  
**Distance Scale:** 4-50, ∞ (m); 13-200, ∞ (ft).  
**Depth-of-Field Scale:** 8, 11, 22.  
**Infrared Index Mark:** No compensation is necessary.  
**Aperture System:** FL automatic, with automatic-manual switch ring.  
**Hood:** Built-in.  
**Outer Diameter:** 60 mm.  
**Inner Diameter:** 58 mm.  
**Maximum Diameter:** 67 mm.  
**Overall Length:** 168 mm (telephoto ratio: 1 : 0.69).  
**Weight:** 850 grams.  
**Accessories:** Exclusive case, 60 mm lens cap, Dust Cap R, 58 mm screw-in filter.

### Specifications for FL-F 500 mm F 5.6

**Picture Size:** 24 × 36 mm.  
**Mount:** FL bayonet mount.  
**Focal Length:** 500 mm.  
**Maximum Aperture:** F 5.6.  
**Minimum Aperture:** F 22.  
**Lens Composition:** 5 components, 6 elements (including 1 fluorite and 2 new type glasses).  
**Angle of View:** 5° (in diagonal line direction).  
**Coating:** Amber.  
**Focusing:** Helicoid, 236° rotating angle.  
**Distance Scale:** 10-50, ∞ (m); 50-300, ∞ (ft).  
**Depth-of-Field Scale:** 11, 22.  
**Infrared Index Mark:** R.  
**Aperture System:** FL automatic, with aperture closing button.  
**Hood:** Built-in.  
**Outer Diameter:** 105 mm.  
**Inner Diameter:** 95 mm.  
**Maximum Diameter:** 105 mm.  
**Overall Length:** 298 mm (telephoto ratio: 1 : 0.65).  
**Weight:** 2.7 kg.  
**Accessories:** Exclusive case, 105 mm lens cap (attachable with one filter attached), Dust Cap R, 95 mm screw-in filter.



Canon EE  
EX

## Quality SLR camera with electric eye through-the-lens

This is a recently announced single-lens reflex camera with easy-to-use, through-the-lens electric-eye exposure system. It has been designed to accommodate three different lenses exclusive for the EX EE, the EX 50 mm F 1.8 standard lens; EX 35 mm F 3.5 wide-angle and EX 95 mm F 3.5 telephoto. Extremely simple operation is one of its outstanding features.



**EE Mechanism:** Fully coupled to film speed, shutter speed and aperture setting. Shutter speed priority system. With F 1.8 lens, ASA 25-800. With F 3.5 lens, ASA 25-500. With ASA 100 film: EV 4.7 (F 1.8 at 1/8 sec.), EV 17 (F 16 at 1/500 sec.). Powered by one 1.3 V MD (No. 625) mercury battery.

**Exposure Control:** Through-the-lens system. CdS photocell at upper rear position of pentagonal prism measures light passing through taking-lens in fully opened condition.

**Manual Control of Aperture:** Pre-set possible at any desired f/stop by releasing EE mechanism.

**Flash Synchronization:** X contact at 1/60 sec. Synchronizing possible for FP, M and MF flashbulbs and electronic flash units. Time lag is adjusted automatically. Continental type flash socket.

**Self-timer:** Built-in.

**Film Loading:** QL mechanism for quick loading of film.

**Film Counter:** Self-resetting type.

**Size:** 142.5×91.5×84 mm.

**Weight:** 900 grams with 50 mm Standard Lens.



### Specifications:

**Type:** 35 mm full frame single-lens reflex camera with electric eye.

**Lens:** Front component interchangeable type with thread mount. EX 50 mm F 1.8 (standard), EX 35 mm F 3.5 (wide-angle) and EX 95 mm F 3.5 (telephoto).

**Viewfinder:** Eye-level viewfinder using pentagonal Dach prism. Combined with microprism screen rangefinder. Contains exposure meter needle, f/stop scale and over/under exposure warning marks. Waist-level viewer 2 and eyesight adjustment lens can be attached.

**Mirror:** Shockless quick return system.

**Shutter:** Focal-plane with speeds from 1/500 to 1/8 sec. and B. X contact at 1/60 sec. Single pivot dial.

# Canon 7s

## Recognized as a high performance camera

A development of the top quality CANON 7 with coupled, highly sensitive CdS meter. Incorporates many improvements and is easier to operate and accommodates the complete system of interchangeable lenses and accessories. Has world's fastest lens—F 0.95.



## Specifications:

**Type:** 35 mm rangefinder type camera with focal plane shutter. Picture size 24×36 mm.

**Lens:** World's fastest 50 mm F 0.95 lens (7 elements in 5 components) or with a choice of standard lenses: 50 mm F 1.2, 50 mm F 1.4 and 50 mm F 1.8. Interchangeable lenses available from 19 mm to 1000 mm.

**Dual Mount:** Bayonet mount for 50 mm F 0.95 lens, and screw mount for other lenses.

**Exposure Meter:** Built-in CdS meter coupled to shutter speed dial. Working range from EV 2 to 19 by HIGH/LOW shift. Aperture setting by meter reading.

**Battery Checker:** Built-in checker for mercury battery. Power Source: One 1.3 V mercury battery.

**Film Speeds:** ASA 6—400, DIN 9—27.

**Shutter:** Metal focal plane shutter, 1/1000—1 sec. and B, T, X plus built-in selftimer. With safety lock.

**Viewfinder:** Parallax corrected 0.8× universal mark finder. Bright line frames for 35, 50, 85, 100 and 135 mm lenses. Coupled rangefinder of double-image focusing type.

**Flash Synchronization:** FP and X contacts. Synchronizes with FP, M and F class flash bulbs and speedlight. Time lag automatically adjusted.

**Film Rewind:** By rewind button and crank.

**Film Counter:** Self-resetting type.

**Size:** 140×81×31 mm.

**Weight:** 630 grams (body only).



**Table of Canon Interchangeable Lenses For Canon Rangefinder Cameras (Canon 7S and all Previous Models)**

Name of lens	Type	Angle of view	Magnification as compared with standard lens	Number of elements	Minimum aperture	Distance scale		Attachment size		Coating	Weight gr
						In ft.	In m	Cap	Filter		
19 mm F 3.5	Super wide angle	96°	0.38 ×	9	16	1.75—20 ∞	0.5—7 ∞	57 mm	55 mm	Magenta purple	200
25 mm F 3.5	Super wide angle	82°	0.5 ×	5	22	3.5—50 ∞	1—20 ∞	42 mm	40 mm	Purple	145
28 mm F 2.8	Super wide angle	75°	0.56 ×	6	22	3.5—50 ∞	1—20 ∞	42 mm	40 mm	Magenta	180
35 mm F 2	Wide angle	64°	0.7 ×	7	22	3.5—50 ∞	1—20 ∞	42 mm	40 mm	Amber	107
35 mm F 1.5	Wide angle	64°	0.7 ×	8	22	3.5—50 ∞	1—10 ∞	50 mm	48 mm	Amber	165
50 mm F 1.8	Standard	46°	1.0 ×	6	22	3.5—50 ∞ } F 1.4 only } 3.5—60 ∞ }	1—20 ∞	42 mm	40 mm	Amber	188
50 mm F 1.4	Standard	46°	1.0 ×	6	22			50 mm	48 mm	Amber	248
50 mm F 1.2	Standard	46°	1.0 ×	7	22			57 mm	55 mm	Amber	322
50 mm F 0.95	Standard	46°	1.0 ×	7	16			75 mm	72 mm	Amber	605
85 mm F 1.8	Long focus	29°	1.7 ×	5	22	3.5—60 ∞	1—20 ∞	60 mm	58 mm	Magenta	470
100 mm F 2	Telephoto	24°	2.0 ×	6	22	3.5—100 ∞	1—30 ∞	60 mm	58 mm	Amber	515
100 mm F 3.5	Telephoto	24°	2.0 ×	5	22	3.5—60 ∞	1—20 ∞	42 mm	40 mm	Purple	220
135 mm F 3.5	Telephoto	18°	2.7 ×	4	22	5—100 ∞ } 1.5—30 ∞ }	1.5—30 ∞	50 mm	48 mm	Magenta	424
M 135 mm F 2.5	Telephoto	18°	2.7 ×	6	22			60 mm	58 mm	Magenta	500
M 200 mm F 3.5	Telephoto	12°	4.0 ×	7	22			8—150 ∞	2.5—50 ∞	60 mm	58 mm
400 mm F 4.5	Super Telephoto	6°	8.0 ×	5	22	8	Closest possible focusing range } 2.6—∞ } 5.1—∞ } 9.9—∞ } 15.0—∞ }	Special		Magenta	1,700
600 mm F 5.6	Extremely long focus	4°	12 ×	2	32	16				Purple	2,100
800 mm F 8	Extremely long focus	3°	16 ×	2	32	31				Purple	1,900
1000 mm F 11	Extremely long focus	2.4°	20 ×	2	32	45				Purple	1,800

# NEW



## Canonet QL17



## Canonet QL19

### THE BEST SELLING CAMERA SERIES IN THE WORLD

Both models are equipped with a precision lens varying in speed according to the model. Choose from QL 17 (F 1.7), QL 19 (F 1.9). Perfect results are assured every time because of the full-proof EE system and the simple focusing method. Both models have the wide range of shutter speeds.



### SPECIFICATIONS FOR NEW CANONET QL 17 AND QL 19

**Type:** 35 mm rangefinder type EE camera.

**Lens for QL 17:** Canon lens 40 mm F 1.7 with six elements four components.

**Lens for QL 19:** Canon lens 45 mm F 1.9 with five elements four components.

**Shutter:** B, 1/4–1/500 in multiple series.

**Self-timer:** Built-in.

**Exposure Meter:** Highly sensitive CdS exposure meter. Powered by mercury battery.

**EE Mechanism:** Fully coupled exposure meter, shutter and aperture. Shutter speed priority system.

**Manually-Operated Aperture:** Possible with combinations of shutter speed and aperture opening of your choice.

**Operating Range of Meter:** EV 3.5–17 (ASA 100).

**Film Speed Index:** ASA 25–800.

**Viewfinder:** Double-image superimposing system, coupled rangefinder. Marked finder with parallax error automatically corrected. Magnification ratio 0.6X. Visible aperture readings and warning marks in the viewfinder. (In manual photography, the meter needle always remains in the warning mark area.)

**Flash:** Directly connected type and automatic adjustment of aperture. Newly conceived arrangement for Flash Auto system and exclusive speed-lite unit, Canolite D, incorporated.

**Flash Auto System:** By merely setting the guide number on the camera to 14, 20, or to 28, aperture gets automatically adjusted to the distant ring operation. Shutter button locks itself when the distance from camera to the subject is improper for flash photography.

**Canolite D:** By leaving the aperture ring at AUTO position, electric eye flash photography is possible with the use of Canolite D. The aperture gets automatically adjusted and the shutter button locks itself to avoid improper exposure.

**Film Loading:** Canon's unique QL (quick loading) device.

**Film Counter:** Self-resetting type.

**Film Winding:** Single operation winding lever type, with the new device incorporated in the camera which eliminates necessity to release shutter buttons three or four times and at the same time to release the AUTO setting while leaving the lens cap on before starting to take pictures. The film winding operation is coupled to the new film transportation checker device explained in the following paragraph.

**Film Transportation Checker:** A new device which enables you to ascertain through the window that a film is either being advanced or rewound as you wind the lever or turn the rewinding crank. Paying your attention to the film transportation checker window prevents going through the process of picture taking when for some reasons or other the camera had not been actually loaded with a new film or when the film had not been properly fed into the sprocket. The new device also helps you to prevent rewinding the film completely into the cartridge including the leader part.

**Size:** 120×75×60 mm.

**Weight:** 600 grams.

# Canonet 28

## "Data Center" controlled electric eye camera

This is the latest in the famed Canonet series . . . 3 million have been sold to date. Canonet 28 has a superb 40 mm F 2.8 lens, programmed electric eye shutter, foolproof focusing and auto flash contact point. Viewfinder acts as a data center, giving information on exposure and focusing for no-mistake shooting.



### Specifications:

**Type:** 35 mm lens shutter type EE camera.

**Picture Size:** 24×36 mm.

**Lens:** Canon lens 40 mm F 2.8 triplet type. 4-element, 3-component construction.

**Shutter:** F 2.8, 1/30 sec. — F 22, 1/250 sec. program type lens shutter. X contact (1/30 sec.) for flash. EE-flash switch system.

**EE Mechanism:** Uses selenium cell. EE mechanism with program shutter.

**EE Working Range:** EV 8 (F 2.8, 1/30 sec.) — EV 17 (F 22, 1/250 sec.) with ASA 100 film.

**Film Speeds:** ASA 25—400 (DIN 15—27).

**Focusing:** 3-point zone focus type by front lens rotation. Snapshot mark for "pan-focusing".

**Viewfinder:** Marked finder. Magnification ratio, 0.6X. Data center viewfinder with bright frame for field-of-view, parallax compensation mark, shutter speed scale, exposure warning marks, flash preparation mark, zone focus marks, snapshot mark in blue, meter needle, focusing needle.

**Flash Synchronization:** Built-in cube socket. X contact for flash shutter used. Flash automatic mechanism to which aperture is coupled according to shooting distance of cube bulb. Socket rotating type coupled to film winding. Two alkaline batteries (AAA size) used for power source.

**Film Winding:** Single operation 127° winding lever type.

**Film Rewind:** Press rewind button and rewind with crank.

**Film Counter:** Self-resetting type.

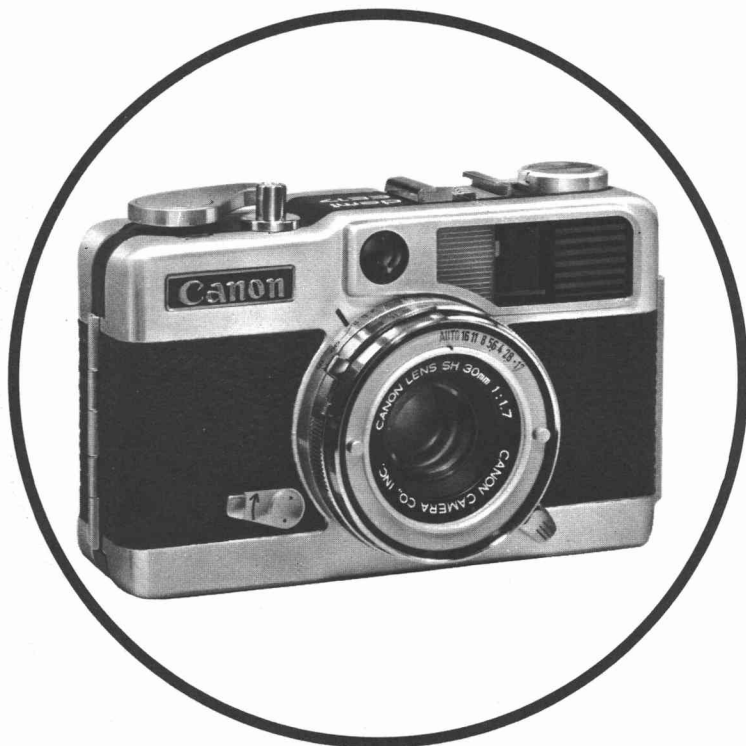
**Size:** 133.5×78.5×59 mm.

**Weight:** 500 grams.

**Canon**  
**demi**  
**EE17**

### The Ultimate in the compact field

Half-frame photography is better than ever with the ultimate camera in the famous Canon Demi series. Has a sharp F 1.7 lens... the electric eye exposure system, the zone focusing method, the Data Center... plus built-in selftimer. Canon Demi EE 17 is compact. So light it can be carried in handbag or pocket.



#### Specifications:

**Type:** 35 mm half-frame EE camera.

**Picture Size:** 24×18 mm.

**Lens:** Canon lens 30 mm F 1.7 6-element, 4-component construction.

**Shutter:** 8 different speeds from 1/8 sec. to 1/500 sec. and B, plus selftimer and flash (1/30 sec.).

**EE Mechanism:** Shutter speed priority type using CdS meter. Manual aperture setting possible. One MD type mercury battery used for power source.

**EE Working Range:** EV 4.5 (F 1.7, 1/8 sec.) — EV 17 (F 16, 1/500 sec.) with ASA 100 film.

**Film Speeds:** ASA 25—400 (DIN 15—27).

**Focusing:** Helicoid 3-point zone focus type.

**Viewfinder:** Bright frame marked finder. Contains zone focus marks, f/stops, exposure warning marks, parallax correction marks.

**Flash Synchronization:** X contact.

**Film Winding:** Single operation 145° winding lever type.

**Film Counter:** Self-resetting type.

**Size:** 117×71×48 mm.

**Weight:** 445 grams.

**Canon**  
**demi**  
**EE28**

### Streamlined mini-weight snapshooter

One of the easiest to use and most compact half-frame cameras anywhere. Easy because of electric eye (EE) exposure system and simple zone focusing feature. Economical due to its half-frame size that gives 40 or 72 shots from standard 20 and 36 shot cassettes. Nicely rounded contours won't snag pocket or handbag.



#### Specifications:

**Type:** 35 mm half-frame programm EE camera.

**Picture Size:** 24×18 mm.

**Lens:** Canon lens 28 mm, F 2.8. 5-element, 3-component construction.

**EE Mechanism:** Program EE system using selenium cell. Manual aperture setting possible.

**EE Working Range:** EV 8 (F 2.8, 1/30 sec.) — EV 17.5 (F 22, 1/300 sec.) with ASA 100 film.

**Film Speeds:** ASA 25—400 (DIN 15—27).

**Focusing:** 3-point zone focus type. Snapshot mark for "pan-focusing".

**Viewfinder:** Marked finder. Contains snap mark, shutter speeds, exposure warning marks and parallax correction mark.

**Flash Synchronization:** X contact.

**Film Winding:** Single operation 132° winding lever type.

**Film Counter:** Self-resetting type.

**Size:** 116×69×39 mm.

**Weight:** 290 grams.

# Canon DIAL35-2

## Easy to use half-frame action camera

The small, lightweight Dial 35-2 shoots off frames at the rate of 2-per-second. It's ideal for sequence photography. Film rewinds automatically in 3-seconds. Fits snugly into pocket or handbag and is always ready for action. Snap focusing symbols and blue zone exposure guide make sure of perfect shots every time.



### Specifications:

**Type:** 35 mm half-frame EE camera.

**Picture Size:** 24×18 mm.

**Lens:** Canon lens 28 mm F 2.8, 5-element, 3-component construction.

**Shutter:** 4 different speeds from 1/30 to 1/250 sec

**EE Mechanism:** Shutter speed priority type using CdS meter. Manual aperture setting possible. One MD type mercury battery used for power source.

**EE Working Range:** EV 8 (F 2.8, 1/30 sec.) — EV 17 (F 22, 1/250 sec.) with ASA 100 film.

**Film Speeds:** ASA 10—1000 (DIN 11—31).

**Focusing:** 3-point zone focus type. Snapshot mark for "pan-focusing".

**Viewfinder:** Bright frame marked finder. Contains parallax correction marks, f/stops, zone focus marks and snap mark.

**Automatic Film Winding and Rewinding:** Power drive system by spring motor. Over 20 continuous exposures possible with one full charge.

**Automatic Film Setting Device:** When spring motor is wound after film is loaded, film leader is automatically wound and film is set at first frame.

**Counter:** Automatic indicator type coupled to winding and rewinding.

**Flash Synchronization:** X contact. Synchronizes with speedlight M and MF type flash bulbs. Continental type socket and connecting socket for accessory shoe available.

**Wrist Strap:** Built into bottom of winding grip.

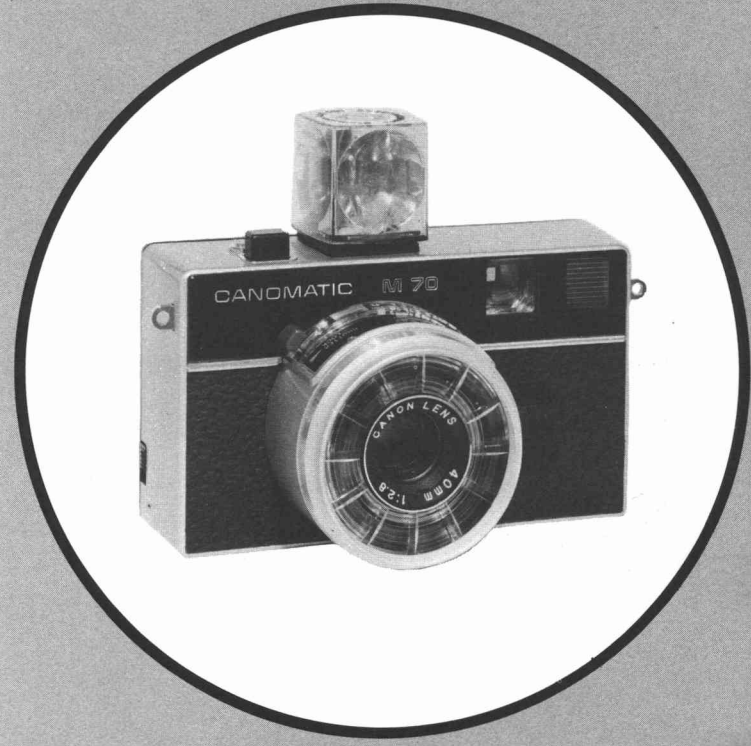
**Size:** 99×75.5×43.5 mm.

**Weight:** 410 grams.

# Canon M70 Canomatic

## New motorized action camera

The newest cartridge instant loading camera has an electrically powered motor for film advancing and rotation of the flashcube. The automatic exposure control, composed of programmed EE and a flash-auto mechanism, can be used for both day and night photography.



### Specifications:

**Type:** 126-size film cartridge instant loading camera with programmed Electric Eye.

**Picture Size:** 28.5×28.5 mm.

**Lens:** Canon Lens 40 mm F 2.8, 3-component, 4-element construction. Spectra coating in amber and magenta.

**Viewfinder:** Bright line frame. 0.45X. Contains exposure indicator, shutter speed scale, under exposure warning ("USE FLASH") mark, over-exposure warning mark, "FLASH READY" mark, and parallax correction mark.

**Focusing:** By distance scale. Click stop at 3 m (approx. 10 ft.). Distance scale: 4, 5, 7, 10, 30, ∞ feet.

**EE Mechanism:** Programmed, using selenium photocell. Film speed is automatically set by cartridge loading. Coupled to entire range between EV 8 (ASA 160, F 2.8 at 1/30 sec.) and EV 17 (ASA 64, F 13 at 1/800 sec.).

**Flash Synchronization:** Flashcube socket. With built-in flash-auto mechanism. Shutter speed is automatically set at 1/30 sec. and F/stop is coupled to focusing. No guide number calculation necessary.

**Film Advancing:** Powered by electric motor. Leader and trailer parts of film are automatically wound. Shutter button lock for preventing inadvertent operation.

**Power System:** Flash synchronization, flashcube rotation and film advancing are powered by two size AAA (L 30) alkaline batteries.

**Accessories:** 48 mm Screw-in type Filters, Canon Selftimer 8, Canon Release 28, 30, 50 mm Lens Cap, Hand Case (Exclusive).

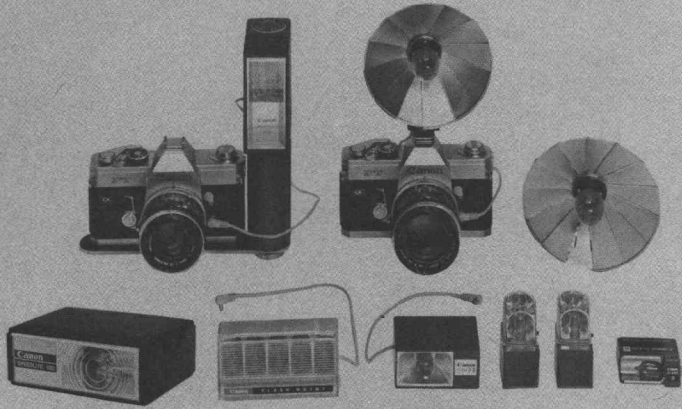
**Size:** 120 mm × 70 mm × 63 mm.

**Weight:** 400 grams.

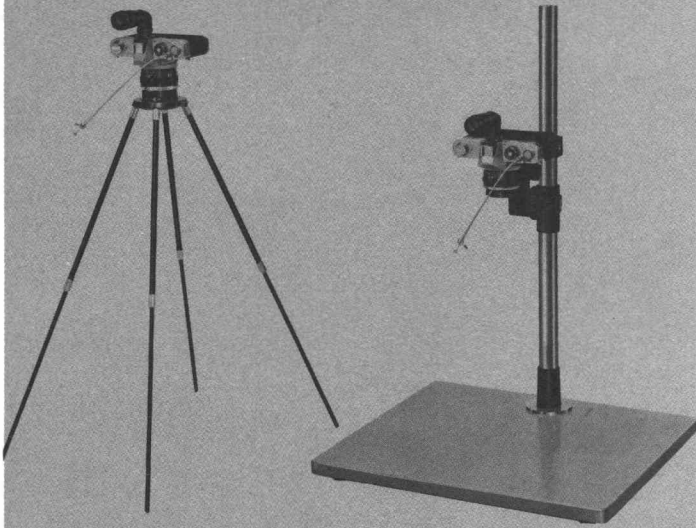
Subject to alterations.

# ACCESSORIES FOR **Canon** STILL CAMERAS

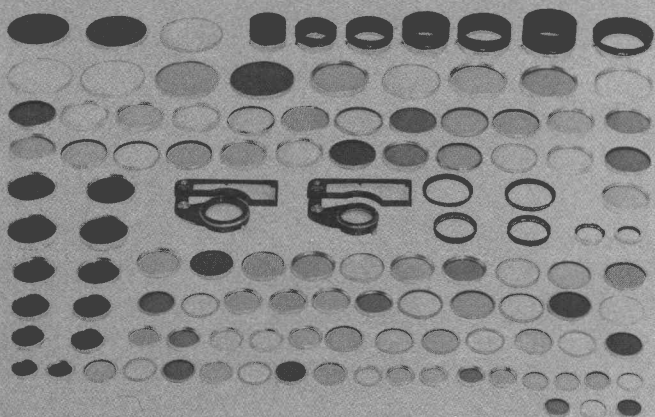
## Canon Flash Units



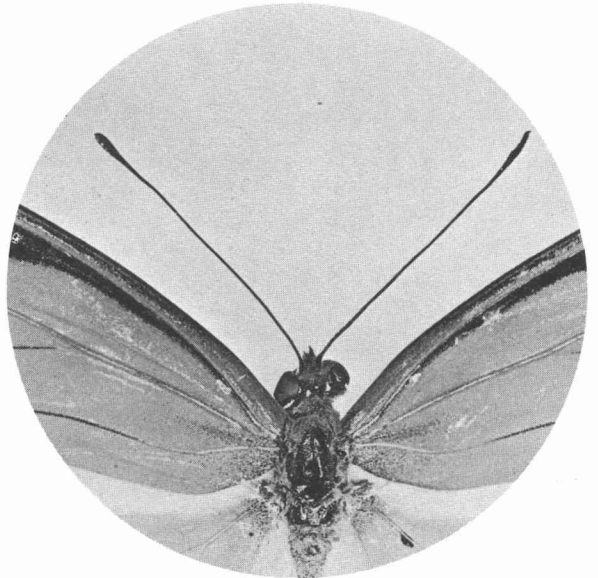
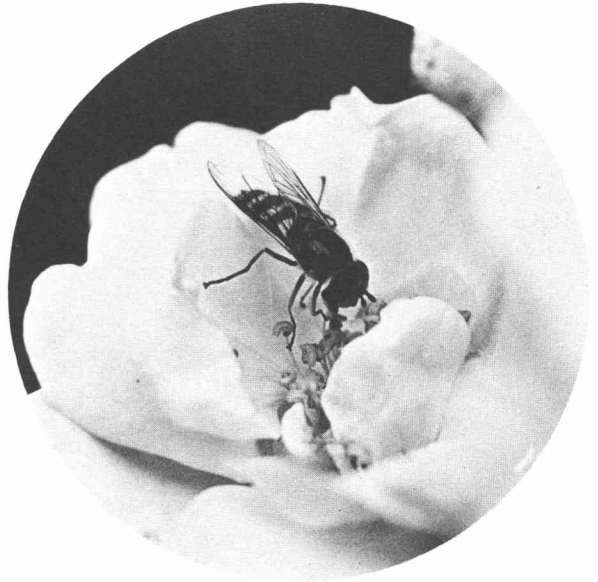
## Canon Copying Equipments



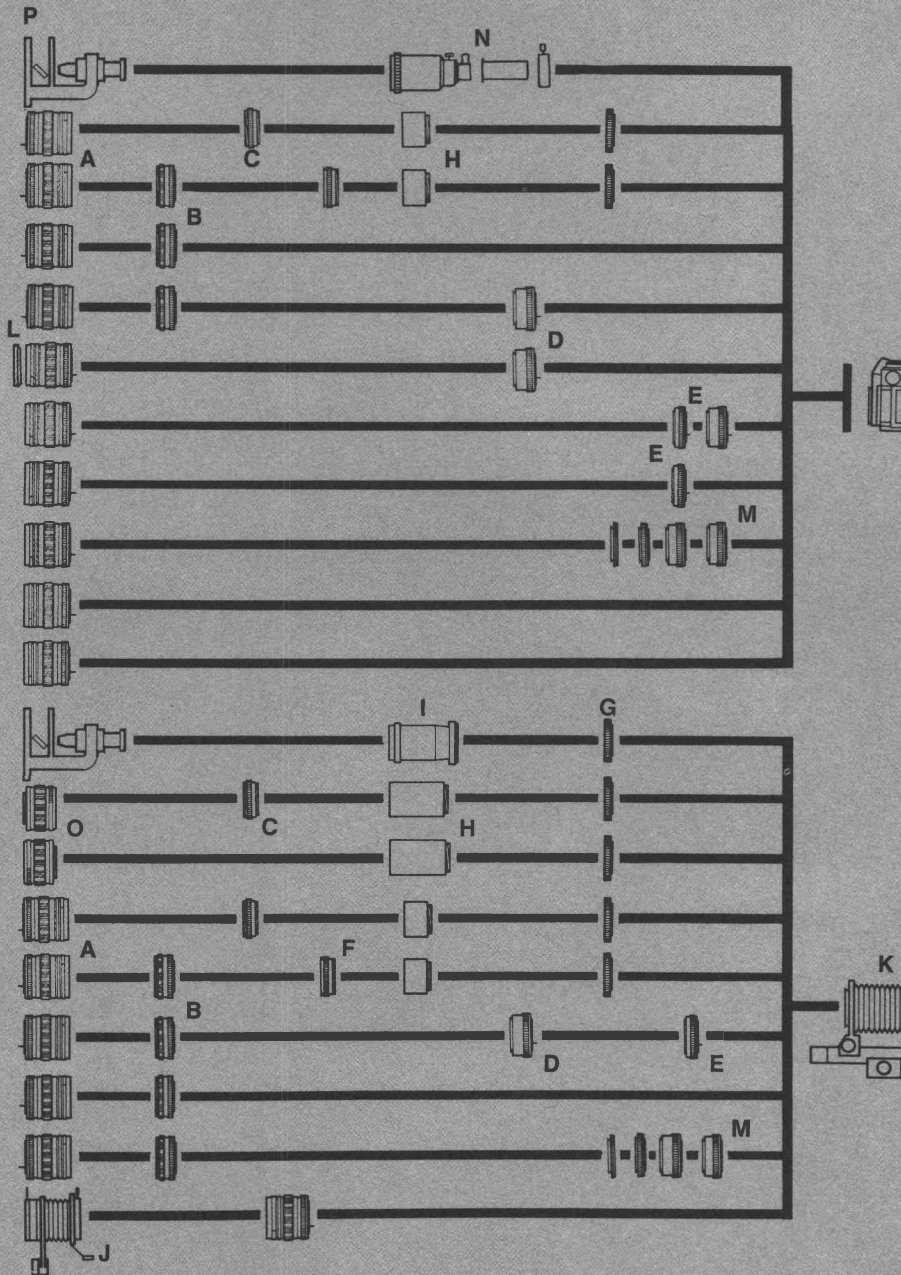
## Canon Filters, Close-up Lenses, Auto-up Lenses and Lens Hoods



## MACROPHOTO



# Macrophotography, Microphotography and Close-up Photography



Having become familiar with the camera of your choice you will want to explore new photographic fields. CANON offers a remarkably wide range of accessories for all purposes. Examples: MACROPHOTO COUPLERS for larger than 1:1-size macrophotography or extreme close up work.

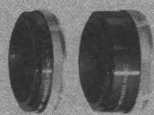
EXTENSION TUBES FL 15 and FL 25—high performance intermediate tubes coupled mechanism for FL lens with an automatic diaphragm.

EXTENSION TUBE M — a simple intermediate tube connected in between a Canon SLR camera and FL or R lenses. When used in conjunction with BELLOWS FL and other related accessories, the photographic magnification can be greatly increased; Canon Bellows M and Bellows Lens FLM 100 mm F 4 for macrophotography; SLIDE DUPLICATOR for attaching to tip of Bellows FL to duplicate color slides (or black and white) at approximately 1:1-size.

These are just a few out of the range of CANON accessories available.



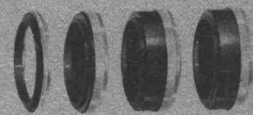
A: FL Lens



E: Extension Tube FL



I: Microphoto Hood



M: Extension Tube M



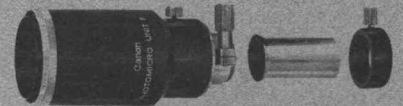
B: Macrophoto Coupler FL



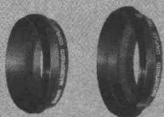
F: Mount Converter B



J: Slide Duplicator



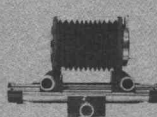
N: Microphoto Unit F



C: Macrophoto Coupler



G: Mount Converter A



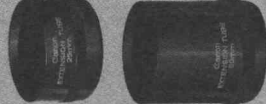
K: Bellows FL



O: Screw-in Type Lens (Rangefinder type)



D: Life-Size Adapter



H: Extension Tube



L: Close-up Lens



P: Microscope



# Canon BINOCULARS

Canon binoculars add a new dimension to the enjoyment of the great outdoors. Made by the manufacturer of the world famous Canon cameras, these precision instruments cover a wide range, from marine binoculars to the light compact sports glass. All incorporate simple center focusing, spectra coated optical glass, finest anti-corrosive alloys and perfectly balanced optical and mechanical axis. Definition, brilliance and image quality are guaranteed by Canon's 35 years experience in the field of precision optics.

**7×50** Deluxe model best suited for use on ships etc.



**7×35** Exceptional magnification model, for outdoor spectator sports etc.

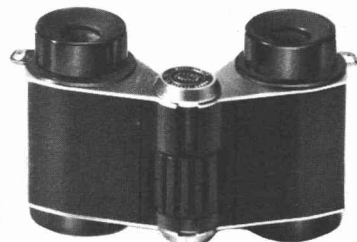


**6×30** Light, easy to use model ideal for women or children.



## Canon Sports Glass

**3×** Light, powerful sports glass fits easily into handbag or pocket.



**8×30** Light, general purpose model fits into pocket or bag.



### Specifications:

Type	7 × 35	8 × 30	6 × 30	7 × 50
Magnification	7 ×	8 ×	6 ×	7 ×
Diameter of Object Lens	35 mm	30 mm	30 mm	50 mm
Diameter of Exit Pupil	5 mm	3.75 mm	5 mm	7.14 mm
Angle of View	7.5°	7.5°	8.0°	7.2°
Linear Field at 1000 yards	393 ft.	393 ft.	420 ft.	376 ft.
Net Weight (approx.)	670 gr. 240 z.	600 gr. 220 z.	600 gr. 220 z.	1150 gr. 410 z.



**Canon SUPER 8  
AUTO ZOOM 1218**

**8 mm movie camera with fantastic zoom lens**

The fast F 1.8 lens of this home movie camera has a zoom range of 7.5—90 mm... 12-times subject enlargement! It is the most powerful 8 mm movie camera in the world. Other features include: zoom range setting levers, electric zooming and filming, two-speed zoom control, automatic exposure control, SLR viewing and microprism screen rangefinder and three filming speeds.



**Specifications:**

**Type:** 8 mm movie camera using Super 8 film cartridge.  
**Frame Size:** 4×5.4 mm. (Super 8 size).  
**Lens:** F 1.8 with zooming range of 7.5—90 mm. 19-element, 13-component construction. Zoom ratio, 1 : 12. Zooming by rotation of lens barrel. Zoom range can be fixed at any range by shifting the zoom range setting levers. Lens coated in single and multi-layers.  
**Viewfinder:** Single-lens reflex type combined with microprism screen rangefinder. Contains 1/stop scale and over/under exposure marks. Eyepiece adjustable to eyesight of photographer.  
**EE Mechanism:** Automatic aperture setting coupled to film speed and filming speed.  
**Exposure Meter:** Through-the-lens system CdS cell measuring light passing through zoom lens. Powered by two 1.3 V M20 (No. 625) mercury batteries.  
**Light Measuring Range:** The entire range between ASA 250 F 1.8 at 18 fps and ASA 16 F 16 at "SLOW MOTION" (approx. 53 fps).  
**Film Speeds:** Automatically set with insertion of film cartridge. With tungsten type film, ASA 25—250 (DIN 15—25). With daylight type film, ASA 16—160 (DIN 13—23).  
**CCA Filter:** Built-in. Corrects colors of tungsten type film when used in daylight. Automatically cancelled on insertion of daylight type film cartridge or manually from outside by shifting the CCA filter switch.  
**Filming Speed:** 18 fps, slow motion and single frame.  
**Shutter Release:** Released by pulling the trigger or pressing the shutter release button. Single frame possible with the cable release.  
**Manual Control of Aperture:** Manual operation is possible by releasing the EE mechanism. Aperture is electrically coupled with the aperture control ring. Fade-ins from F 22 and fade-outs to F 22 are possible with aperture control ring and an ND filter.  
**Power System:** Film drive and power zooming operated by two micro-motors. Power zoom can be regulated in two speeds. Entire zooming is done in 3—6 and 10—12 seconds at "H" and "L" respectively.  
**Power Source:** Five 1.5 V penlight (size AA) batteries. Sufficient power for 15 cartridges of film under normal temperature.  
**Battery Tester:** Built-in. Indicates power levels of mercury and penlight batteries.  
**Manual Zooming:** Performed by manual zoom lever.  
**Footage Counter:** Counts up to 50 feet.  
**Film Transport Indicator:** For checking film advancement.  
**Release Sockets:** For remote control, cable release and single frame.  
**Trigger Grip:** Detachable. With wrist strap.  
**Size:** Body, 256×104×89 mm. Trigger grip, 128×115×32 mm.  
**Weight:** Body, 2000 grams. Trigger grip, 280 grams.

**Canon SUPER 8  
AUTO ZOOM 814**

**For enjoying the newest techniques in home-movies with an 8 TIMES power zoom**

This is the camera with unlimited potential. The motorized zoom operates electrically between 7.5 mm wide angle and 60 mm telephoto. It uses one of CANON'S renowned lenses—a fast F 1.4. Perfect exposure is ensured by the TTL EE exposure system. Effects such as "fade-in" and "fade-out" are possible for really professional results. "Human engineering" design for ease of operation and manipulation.



**Specifications:**

**Type:** 8 mm cine camera for Super 8 film in easy-loading Super 8 cartridges.  
**Picture Size:** 4×5.4 mm. (Super 8 size).  
**Lens:** Focal length 7.5 to 60 mm (zoom ratio 1 : 8), F 1.4, 18 elements in 13 components (of which 6 elements are made of rare-element glass). Internal diam: 58 mm, external diam: 60 mm.  
**Coating:** Spectra hard coated in amber and purple.  
**Viewfinder:** Single-lens reflex type, with built-in exposure meter reading window, "film-finished" signal, prism screen range-finder, eyepiece adjustable to user's eyesight, special shutter device for intercepting unwanted light entering through eyepiece.  
**EE Mechanism:** Automatic aperture diaphragm coupled to exposure meter, film speed and filming speed. Correct exposure is obtained by aiming camera at the subject.  
**Exposure Meter:** TTL CdS exposure meter is actuated by light reaching it through the picture taking lens. Needs two MD-type 1.3-volt mercury batteries.  
**Measuring Range:** ASA 400 F 1.4 12 fps to ASA 16 F 22 24 fps.  
**Film Speed:** Camera is automatically adjusted to film speed. ASA 25—400 in artificial light. ASA 16—250 in daylight.  
**CCA Filter:** Permits use of tungsten-type film in daylight. Automatically removed by daylight cartridge. Can be manually removed.  
**Filming Speed:** 12, 18 and 24 fps plus single frame.  
**Manual Aperture Setting:** EE mechanism can be disconnected for manual aperture setting. Permits to make special effects fade-in and fade-out.  
**Drive:** High-performance micromotor ensures automatic zooming and automatic filming.  
**Automatic Filming:** Electrically powered micromotor provides continuous automatic filming of the full 15 m (50 feet) length of the film.  
**Automatic Zooming:** Total zooming time: about 3 seconds.  
**Power Source:** Four UM-3 batteries in grip last for about 14 film cartridges.  
**Manual Zooming:** By zooming lever which can be turned 100 degrees.  
**Footage Counter:** Re-sets automatically when back cover is opened. Counts from zero upwards.  
**Battery Checker:** Built-in to check motor batteries.  
**Grip:** Folding type. Houses motor batteries.  
**Release Sockets:** For remote control, single-frame filming and continuous filming.  
**Remote Control:** By remote switch.  
**Shutter Release Mechanism:** Running lock which can also be used as safety switch; lever for switching to remote control.  
**Safety Device:** EE warning marks. Shutter lock, film transport movement-checking device.  
**Size:** 237×63×107 mm.  
**Weight:** 1700 grams.

## Canon SUPER 8 AUTO ZOOM 518

Home movie camera that presents the wonderful world of moving pictures

518 includes all the features required to make professional-like movies. Its excellent F 1.8 lens enlarges up to 5-times and has wide-angle, telephoto and zoom capability. For special effects there are fade-in and fade-out and slow motion devices. A teleconverter attachment allows the zoom range to be extended up to 8-times.



### Specifications:

**Type:** 8 mm movie camera using Super 8 film cartridge.

**Frame Size:** 4×5.4 mm.

**Lens:** F 1.8 with zooming range of 9.5—47.5 mm. 14-element, 11-component construction. Zoom ratio 1:5. Zooming by rotation of lens barrel. Zoom range can be extended to 15.6—78 mm with optional Tele-Converter.

**Viewfinder:** Single-lens reflex type combined with microprism screen rangefinder. Contains f/stop scale and over/under exposure warning marks. Eyepiece adjustable to eyesight of photographer.

**EE Mechanism:** Automatic aperture setting coupled to film speed and filming speed. Aim camera at subject for correct exposure.

**Exposure Meter:** Through-the-lens system CdS meter measures light passing through taking lens. Powered by two 1.3 V M20 (No. 625) mercury batteries.

**Light Measuring Range:** The entire range between ASA 160 F 1.8 at 18 fps and ASA 16 F 16 at SLOW MOTION (approx. 40 fps).

**Film Speeds:** Automatically set with insertion of film cartridge. With tungsten type film, ASA 25—160 (DIN 15—23). With daylight film, ASA 16—100 (DIN 13—21).

**CCA Filter:** Built-in. Corrects colors of tungsten type film when used in daylight. Automatically cancelled on insertion of daylight type film cartridge or manually from outside.

**Filming Speed:** 18 fps and SLOW MOTION.

**Manual Control of Aperture:** Manual operation is possible by releasing the EE mechanism. Aperture is electrically coupled with the aperture control ring. Fade-ins and fade-outs from/to F 32 are possible with aperture control ring and an ND filter.

**Power System:** Film drive and power zooming operated by two micromotors. Entire zooming is done in approximately 6 seconds.

**Power Source:** Four 1.5 V penlight (size AA) batteries. Sufficient power for 10 cartridges of film under normal temperature.

**Battery Tester:** Built-in. Indicates power levels of mercury and penlight batteries.

**Manual Zooming:** Performed by manual zoom knob. Revolving angle of 100°.

**Footage Counter:** Counts up to 50 feet.

**Film Transport Indicator:** For checking film advancement.

**Release Sockets:** For remote control and cable release.

**Trigger Grip:** Fixed type.

**Size:** 206×187×55 mm.

**Weight:** 1150 grams.

## Canon SUPER 8 ZOOM 518-2

Budget-priced family movie camera

Almost identical to the 518, this model is really value packed. Equipped with a newly developed built-in trigger grip, it also features a 5-1 manual zoom lens, automatic exposure control, electric film drive, Super 8 cartridge system, SLR viewing with microprism screen rangefinder and color conversion filter for use with tungsten type film. Tele-Converter attachment will boost zoom capability up to 8:1.



### Specifications:

**Type:** 8 mm movie camera using Super 8 film cartridge.

**Frame Size:** 4×5.4 mm.

**Lens:** F 1.8 with zooming range of 9.5—47.5 mm. 14-element, 11-component construction. Zoom ratio 1:5. Zooming by rotation of lens barrel. Coated in amber and magenta. Zoom range can be extended to super-telephoto (15.6—78 mm) with optional Tele-Converter.

**Viewfinder:** Single-lens reflex type, combined with built-in microprism screen rangefinder. Contains f/stop scale and over/under exposure warning marks. Eyepiece adjustable to eyesight of photographer.

**EE Mechanism:** Automatic aperture setting coupled to film speed and filming speed.

**Exposure Meter:** Through-the-lens system CdS cell measures light passing through taking lens. Powered by two 1.3 V M20 (No. 625) mercury batteries.

**Film Speeds:** Automatically set with insertion of film cartridge. With tungsten type film, ASA 25—160 (DIN 15—23). With daylight type film, ASA 16—100 (DIN 13—21).

**CCA Filter:** Built-in. Corrects colors of tungsten type film when used in daylight. Automatically canceled on insertion of daylight type film cartridge or manually from outside by shifting the CCA filter switch.

**Filming Speed:** 18 fps.

**Film Drive:** Electrically powered micromotor provides continuous filming of entire 50-foot length of film. Powered by three 1.5 V penlight (size AA) batteries. Sufficient power for 15 cartridges of film under normal temperature. Battery tester, built-in.

**Shutter Release:** Released by pulling the trigger.

**Footage Counter:** Counts up to 50 feet.

**Film Transport Indicator:** For checking film advancement.

**Release Sockets:** For remote control and cable release.

**Size:** 206×187×55 mm.

**Weight:** 1000 grams.

## Canon <sup>SUPER 8</sup> ZOOM 250

### New contoured compact for home movie makers

The newest 8 mm movie camera from Canon, the Zoom 250, has a useful 2.5 times zoom lens, electric-eye single-lens reflex viewfinder, 3-point zone focusing and accommodates a lighting unit for indoor and night-time movie making.



#### Specifications:

**Type:** 8 mm movie camera using Super 8 film cartridge.

**Frame Size:** 4×5.4 mm.

**Lens:** F 1.8 with zooming range of 10.8–27 mm. 12-element, 10-component construction. Zoom ratio 1:2.5. Zooming by rotation of lens barrel. Coated in amber and magenta.

**Viewfinder:** Single-lens reflex type. Contains correct exposure zone and meter needle. Eyepiece adjustable to eyesight of photographer.

**EE Mechanism:** Automatic aperture setting coupled to film speed and filming speed.

**Exposure Meter:** Built-in CdS meter. Powered by one 1.3 V M 20 (No. 625) battery.

**Socket:** For cable release.

**Light Measurement Range:** The entire range between ASA 100 F 1.8 at 18 fps and ASA 16 F 16 at 18 fps.

**Film Speeds:** With tungsten type film, ASA 25–160 (DIN 15–23). With daylight type film, ASA 16–100 (DIN 13–21).

**CCA Filter:** Built-in. Corrects colors of tungsten type film when used in daylight. Automatically cancelled on insertion of daylight type film cartridge or manually from outside.

**Filming Speed:** 18 fps.

**Power Source:** Three penlight batteries (Stored in Grip). Sufficient power for 8 cartridges of film under normal temperature.

**Zooming:** Manual control.

**Footage Counter:** Automatically resets when the cartridge is taken out.

**Attachment of Lighting Unit:** Possible — Movie Light (Kodak).

**Size:** 168×160×48 mm.

**Weight:** 520 grams.

## Canon <sup>Single-8</sup> 518

### For professional-like colour and black and white movies

The new Single 8 518 with special cartridge has 5-times zooming capacity, fade-in, fade-out and overlappings to obtain "dreamlike" effects by double exposure.



#### Specifications:

**Type:** 8 mm movie camera using Single 8 film cartridge.

**Frame Size:** 4×5.4 mm.

**Lens:** F 1.8 with zooming range of 9.5–47.5 mm. 11-component, 14-element construction. Zoom ratio, 1:5. Zooming by rotation of lens barrel. Zoom range can be extended to super-telephoto (15.6–78 mm) with optional Tele-Converter.

**Viewfinder:** Single-lens reflex type, combined with built-in prism screen rangefinder. Contains aperture scale and over/under exposure warning marks. Eyepiece adjustable to eyesight of photographer.

**EE Mechanism:** Automatic aperture setting coupled to film speed and filming speed. Aim camera at subject for correct exposure.

**Exposure Meter:** Through-the-lens system CdS meter measures light passing through taking lens. Powered by two 1.3 v M 20 (No. 625, M 1-D or TH-MC) mercury batteries.

**Light Measuring Range:** The entire range between ASA 200 F 1.8 at 18 fps and ASA 16 F 16 at SLOW MOTION (approx. 36 fps).

**Film Speed:** Automatically set with insertion of film cartridge. ASA 16–200 (DIN 13–24).

**Filming Speed:** 18 fps and SLOW MOTION.

**Shutter Release:** Released by turning the shutter lock dial and pulling the trigger.

**Manual Adjustment of Aperture:** Manual operation is possible with the aperture dial and an ND filter.

**Film Rewinding:** Double exposure and overlapping are possible by using rewinding crank.

**Power System:** Film drive and power zooming operated by two micromotors. Entire zooming is done in approximately 6 seconds.

**Power Source:** Four 1.5 V penlight (size AA or UM-3) batteries. Sufficient power for 15 cartridges of film under normal temperature.

**Battery Tester:** Built-in. Indicates power levels of mercury and penlight batteries.

**Manual Zooming:** Performed by manual zooming lever. Revolving angle of 100°.

**Footage Counter:** Counts up to 50 feet. Automatically resets when side cover is opened. With rewinding number per one foot indicated.

**Film Type Window:** For checking the film speed and film advancement. With the rewinding index.

**Release Sockets:** For remote control and continuous running photography.

**Trigger Grip:** Fixed type, containing power-drive battery chamber.

**Size:** 195×206×56 mm.

**Weight:** 1350 grams.

Subject to alterations.

**Canon**  
**ZOOM DS-8**  
 DOUBLE SUPER 8

The latest addition to Canon Movie Camera range, the Zoom DS-8, incorporating the Double Super 8 System, has 8-times zooming capacity, a new automatic control circuit system, a servomechanism, 5 filming speeds and single frame release.

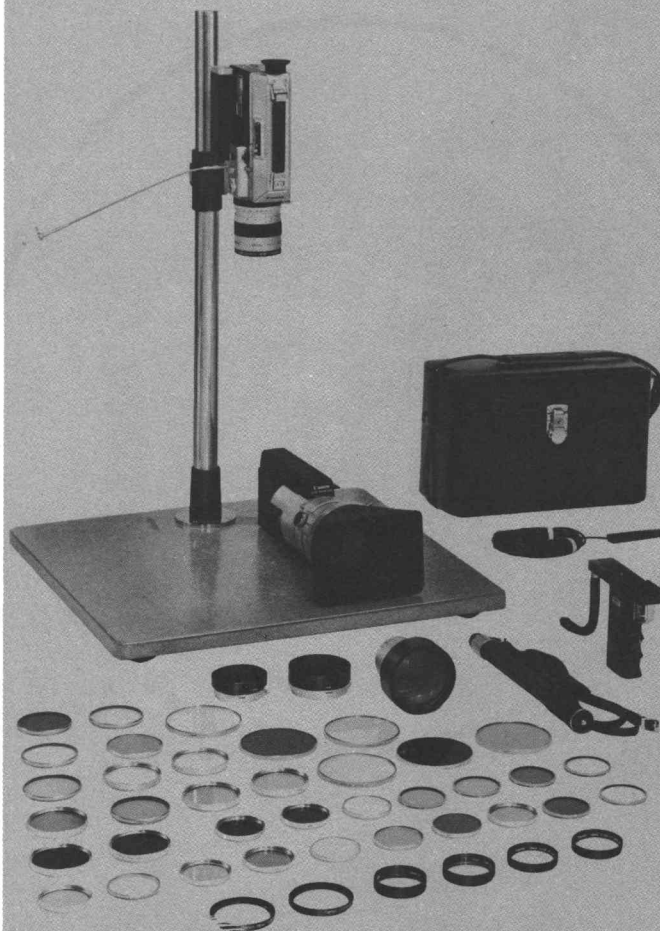


**Specifications:**

**Type:** 8 mm movie camera using Double Super 8 film exclusively.  
**Lens:** F 1.4 with focal length of 7.5–60 mm. Zoom ratio 1:8. 13-component, 18-element construction (including six rare earth glasses). Inner diameter, 58 mm. Outer diameter, 65 mm.  
**Zooming:** Manual, with zooming lever.  
**Viewfinder:** Single-lens reflex type combined with built-in split-image rangefinder. Contains exposure indicator, f/stops scale, over/under exposure warning marks and manual aperture control mark. Eyepiece is adjustable (–4.5 to +5 diopter). Magnification, 0.62X–4.67X. With eyepiece shutter. Two types of eyecups are supplied with the camera.  
**Electric Eye Mechanism:** Automatic aperture setting coupled to CdS photocell and servomotor. The Electric Eye is coupled to the changes in light volume received by the independent window. Light receiving angle, 12-degree vertical, 21-degree horizontal. Powered by the electric motor used in common for film advance.  
**EE Working Range:** Coupled to entire range of ASA 320 F 1.4, 12 fps – ASA 10, F 22, 54 fps.  
**Manual Aperture Control:** Possible by setting the master switch at "MANU" and turning the aperture control ring.  
**Film Speeds:** ASA 10–320, DIN 11–26.  
**Filming Speeds:** 12, 18, 24, 36, 54 fps and single frame release. Running lock possible.  
**Variable Shutter Control:** Consecutively from 0° to 165°. "CLOSE", "4", "2" and "OPEN" with 0°, 41.25°, 82.5° and 165° respectively. Exposure adjustment and fadings are possible.  
**Film Advance:** Electric motor drive system.  
**Rewinding Mechanism:** Electrically performed by setting the variable shutter control lever at "R" and depressing the shutter release button. Over-lappings possible.  
**Power Source:** Eight 1.5 v penlight (size AA) alkaline or manganese batteries. Use with exclusive battery magazine. Approx. nine reels can be filmed with alkaline batteries under normal temperature at 18 fps. External battery box adaptable using alkaline, manganese, or nickel cadmium batteries.  
**Film Loading:** Semiautomatically loaded by power. Film cutter, built-in.  
**Footage and Frame Counters:** The footage counter has graduations at 10-foot intervals. Rotates in forward and reverse directions. Automatically resets when the side cover is opened. The frame counter indicates 72 frames (one foot) with every one rotation. Coupled to footage counter and able to count up to the single frame.  
**Various Sockets:** For single frame, remote control, tape recorder starting, and tripod.  
**Size:** 268×227×103 mm.  
**Weight:** 3370 grams.  
**Accessories:** Lens Cap, Filters, Close-Up Lenses, Remote Switch 3, External Battery Box, Battery Magazine, NiCd Battery Charger, Spool.  
 Subject to alterations.

**ACCESSORIES FOR Canon**  
**CINE CAMERAS**

**Converter Lenses, Copying Equipment, Remote Switches**



Canon S400

CINE PROJECTOR

### For leisure home projection anywhere

This light, portable movie projector takes Super 8, Single 8 and Regular 8 mm film up to 400 feet (120 m) on one loading. Slow motion possible. Bright, sharp F 1.3 Zoom lens.



#### Specifications:

**Acceptable Film:** Super 8, Single 8 (4×5.4 mm) film and the regular 8 mm (3.3×4.4 mm) film by adjusting the film selector.

**Loading Mechanism Reel Capacity:** Automatic loading by placing film into the film inserting slot. 400 feet (120 m) at one loading.

**Rewinding Mechanism:** Automatic rewinding activated by punched end of film. Rewinding possible by pushing rewind button. Rewinding speed, less than 2 minutes.

**Lens:** Canon Zoom Lens PS 17–28 mm F 1.3.

**Projection Lamp:** 8 V, 50 W, with a built-in reflector mirror, Philips type.

**Pilot Lamp:** 0.3 ampere 8–12 V lamp. Lights when rotary switch is at "OFF" and "MOTOR".

**Motor:** DC shunt motor with built-in AC converter. With cooling fan.

**Power Supply:** 100–240 V AC 50–60 Hz. Designed for use on AC power supply only.

**Acceptable Voltage:** Adjustable to 100, 115, 125, 160, 200, 220, or 240 V by means of a built-in transformer.

**Projection Lamp:** 8 V, 50 W with a built-in reflector mirror, Philips type.

**Projection Speed:** Adjustable from 12 to 20 fps for normal projection, and 8 to 10 fps for slow motion projection.

**Electric Cord:** 300 cm (6' 6-3/4").

**Film Cutter and End Mark Puncher:** For splicing film and for automatic rewinding.

**Projection Screen:** 162×120 mm screen built into the cover.

**Power Consumption:** 110 W.

**Size:** 333×210×155 mm.

**Weight:** 5 kg.

Subject to alterations.

Canon

CANOVISION 8

### To watch home movies TV-style

Here is a unique way to watch home movies. Canovision 8 allows home movie viewing in broad daylight thanks to its black daylight screen feature. It's light, compact and easy to operate. Takes all Super 8, Single 8 and regular 8 mm films and shows them clearly and brightly.



#### Specifications:

**Lens:** 11 mm F 2.5, 4-element, 4-component construction.

**Mirrors:** 2.

**Screen Size:** Regular 8 mm film: 163×123 mm.

Super 8 and Single 8: 200×150 mm.

**Projection Lamp:** 8 V, 50 W, horizontal type.

**Motor:** Induction motor, 50/60 cps, with forced air cooling fan.

**Voltage:** AC 115, 125, 160, 220, 240 V.

**Projection Speed:** Approx. 17 fps.

**Reel Capacity:** Regular 8 mm film and Super 8: 200 ft. (60 m).

Single 8: 250 ft. (75 m).

**Reel Shaft:** Both Super 8 and regular 8 mm reels can be attached without adapters.

**Others:** Framing and focusing are also built-in.

**Size:** 298×253×199 mm.

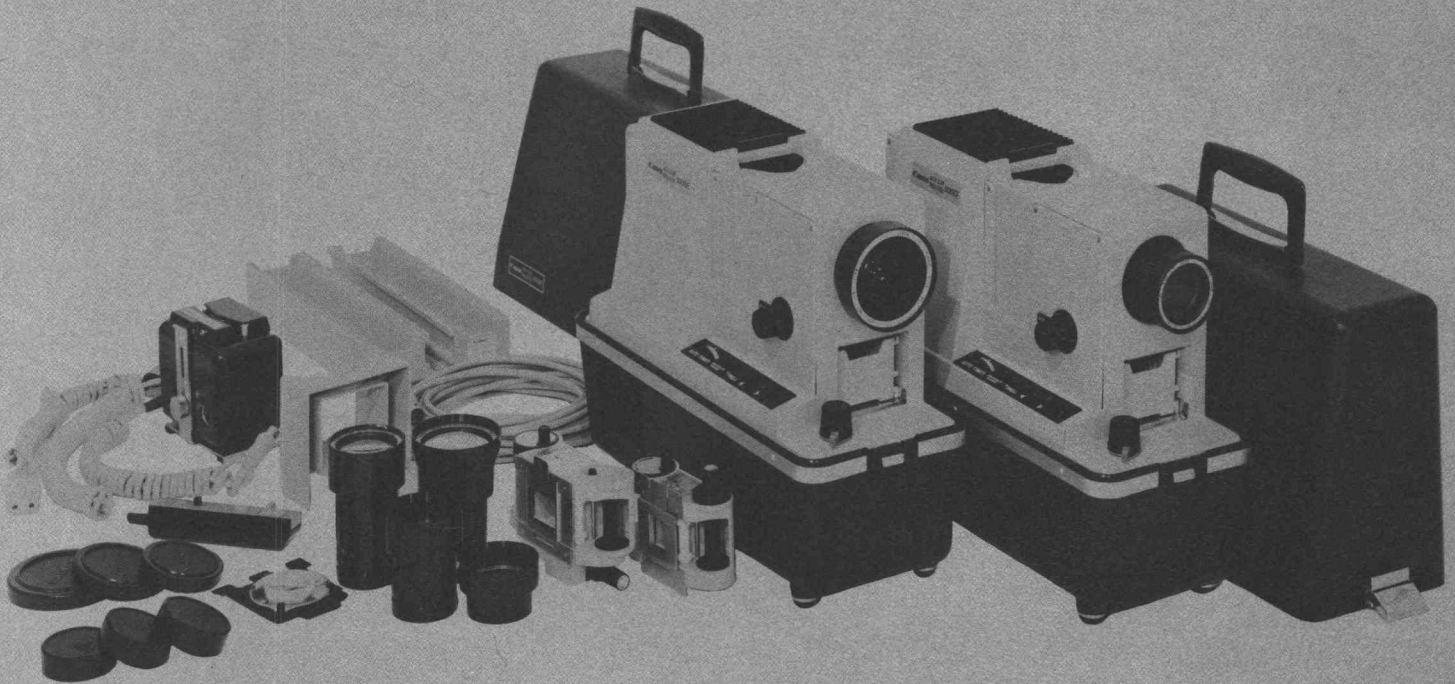
**Weight:** Approx. 4.7 kg.

# Canon AUTO SLIDE 500EF

The Canon Auto Slide Projector 500 EF is a unique projector of Canon's precision optical and electronics technologies.

An electronic focusing device incorporated in the Canon Auto Slide Projector 500 EF to automatically adjust focusing on the screen, makes it possible to project slides without manual adjustment, once the focus has been established.

The Canon Auto Slide Projector 500 EF comes with a complete and wide range of accessories, including 5 interchangeable lenses to suit different projection conditions: fully automatic remote control system: two automatic strip film carriers for 35 mm full-size and half-size frames: and a tape synchronizer for sound projection. It is ideally suited for audio-visual education and for occupational training and informational activities.



## Specifications:

**Slide Size:** 35 mm (24×36 mm, 24×18 mm) mount and strip film, and 26×26 mm mount film.

**Acceptable Mounts:** Paper, plastic and metal mounts, and glass of less than 3.2 mm in thickness.

**Slide Magazine:** Magazine 50 can carry 50 slides.

**Slide Operation:** Powered forward and reverse operation by the use of mount film/magazine. Projection time may be set at any interval between five and twenty seconds (indices: 5, 10, 15 and 20). A single slide can be projected. Slides can be removed from the projector. Powered forward operation by use of strip film/strip film carrier.

**Projection Lens:** P 50 mm F 3.5, 8 elements in 8 components.

P 75 mm F 3.5, using rear component of P 50 mm.

P 100 mm F 2.8, 4 elements in 4 components.

P 150 mm F 3.5, 3 elements in 3 components.

P 200 mm F 3.5, 5 elements in 4 components.

P 90–150 mm F 3.5 zoom, 9 elements in 7 components.

**Condenser Lens:** 3 elements in 3 components (one is convertible) including a heat-resistance filter. For 50 mm and 75 mm lenses, and for 100 mm, 150 mm, 200 mm and zoom lenses.

**Projection Lamp:** 115 V / 220 V, 500 W.

**Focusing Adjustment:** Automatic adjustment of film deviation at the time of projection by the use of aperture unit incorporating electronic focusing system.

**Motor:** Two shading coil-type motors for operation and cooling.

**Blower:** Reinforced cooling system that allows continuous projection for an extended period. It keeps the temperature of projector under 70° C, and film, under 50° C.

**Room lamp:** For local lighting, equipped with a socket. Up to 115 V / 220 V, 100 W.

**Sound Projection:** Possible to synchronize the projection with a tape recorder by using the Tapesync AS. Slide transmitting by pulse signals.

**Power Source:** 115 V / 220 V, 50–60 Hz.

**Power Consumption:** 600 W.

**Size:** 360×325×155 mm with cover.

**Weight:** Approx. 8.6 kg.

**Accessories:** Six types of convertible lenses. Remote Control Switch AS (cord length, 4 m). Extension Cord AS (10 m). AC Cord Tapesync AS. Slide Magazine 50 (set of 2 and 4). Strip Film Carrier ASF (for full size film) and ASH (for half-size film). Projection Lamp.

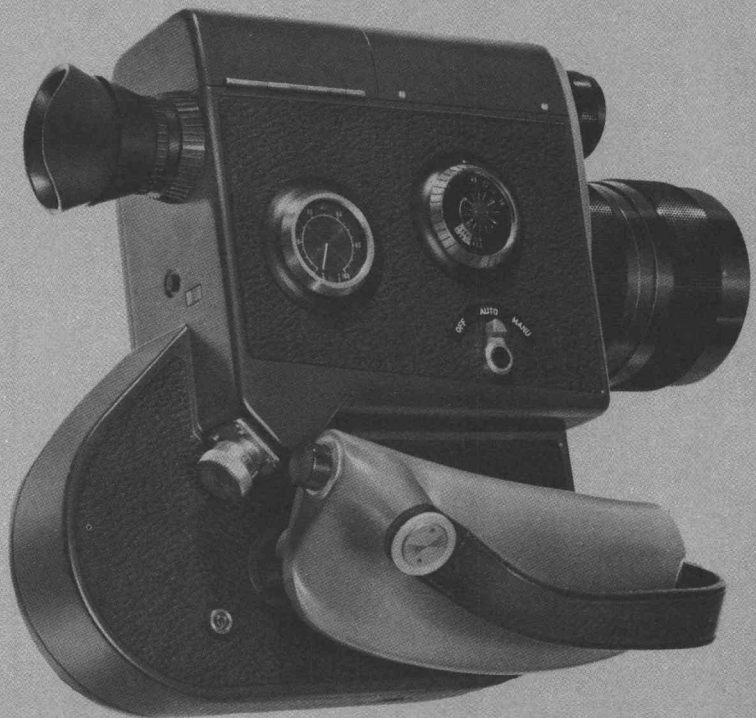
Subject to alterations.



# Canon SCOOPIC 16

The first 16 mm camera with F 1.6 six-times zoom lens and automatic exposure control

Canon Scoopic 16 is a 16 mm movie camera with a zoom lens. This 16 mm cine camera is the first of its kind to boast a sharp zoom lens having a zooming range from 13 mm wide-angle to 76 mm telephoto and an EE mechanism coupled with a built-in CdS meter. Canon Scoopic 16 was originally designed for use by television and news cameramen, but it can also be widely used for commercial photography and by amateur cine camera fans.



## Specifications:

**Film:** 16 mm wide, 100 ft. (30.5 m) long. Either single or both side perforations.

**Lens:** Canon zoom lens C-16E F1.6 with zooming range of 13–76 mm. 18-element, 13-component construction. Zoom ratio 1:5.85. Zooming by rotation of lens barrel. Shooting distance 1.5 m (5 ft.) to infinity.

**Viewfinder:** Single-lens reflex type with prism screen rangefinder and eyepiece adjustment ring. Contains f/stops scale, over/under exposure warning marks and manual aperture control mark.

**EE Mechanism:** Automatic aperture mechanism fully coupled to highly sensitive built-in CdS cell.

**Light Measuring Range:** Film speed ASA 10–320 (DIN 11–26). Coupled to entire range of F 1.6–F 22 and 16–48 fps.

**Filming Speeds per Second:** 16 fps (1/43 sec.), 24 fps (1/64 sec.), 32 fps (1/86 sec.), 48 fps (1/128 sec.). Shutter opening angle, 135 degrees.

**Manually Operated Aperture:** Ordinary photography possible at any f/stop.

**Power System:** Electric motor system. Built-in micromotor is powered by a 12 V nickel cadmium battery.

**Power Source:** 12 V nickel cadmium battery. Rechargeable. 12 V × 2 parallel circuit for outside power source.

**Film Loading:** Semiautomatic film loading system. Just insert the tip of the film into the film feeding guide.

**Footage Counter:** Counts up to 100 feet. Needle automatically returns to "S" mark when side cover is opened.

**Size:** 280×147×222 mm.

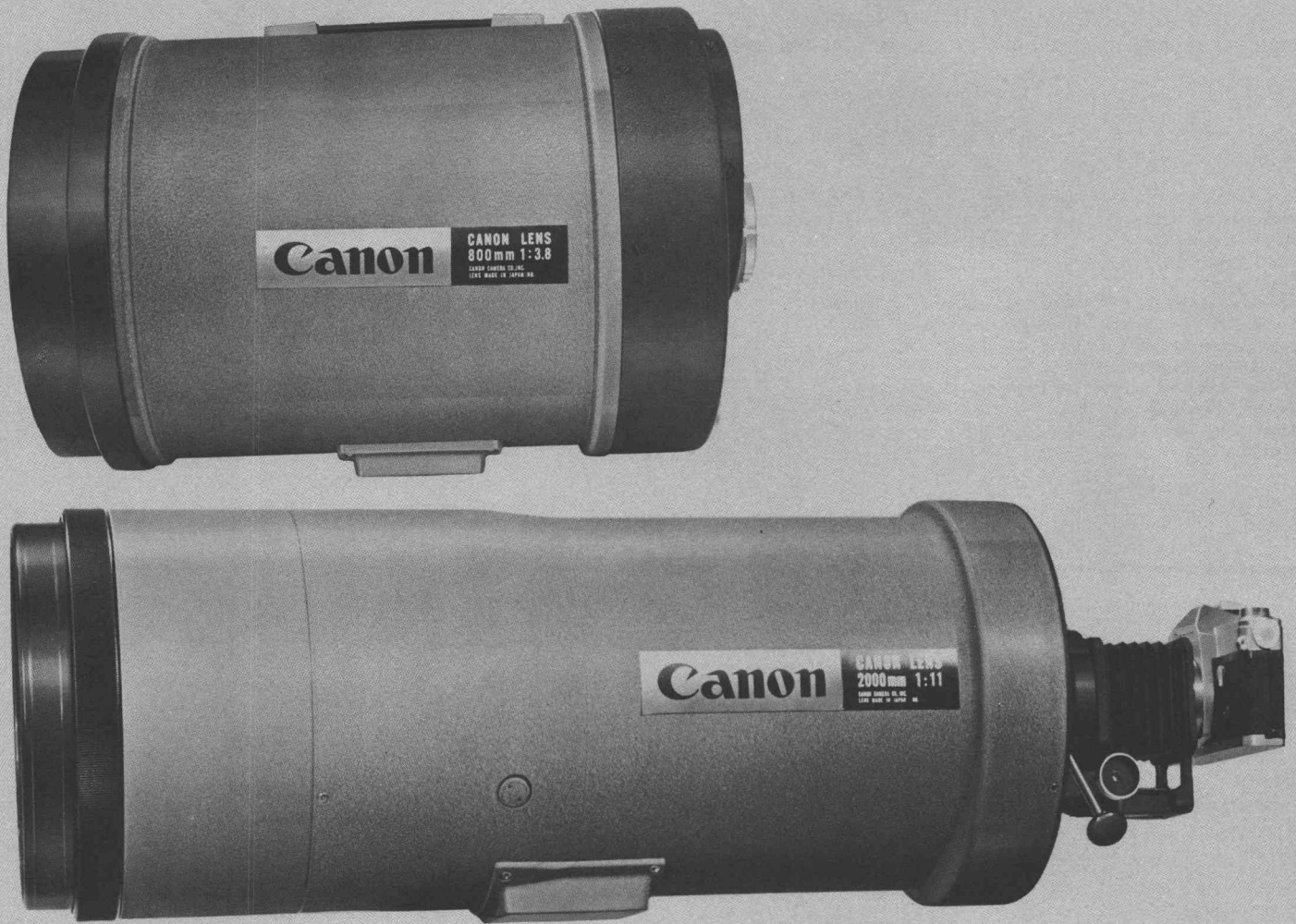
**Weight:** 3.1 kg.

## Canon Mirror Lens 800 mm, 2000 mm

Canon lens 800 mm F 3.8 and 2000 mm F 11 are extra-long telephoto lenses for use with Canon single-lens reflex camera. They are especially suited for shooting very distant subjects such as in news photography and covering sports from the stand.

The lenses can also be used for television broadcasting with the use of mounts, TV 88, RCA and PYE.

The 800 mm F 3.8 is very effective for TV broadcasting with its fast lens speed. The 2000 mm F 11 lens boasts an extraordinary high performance of 40 x magnification when compared with the standard 50 mm lens.



### Specifications:

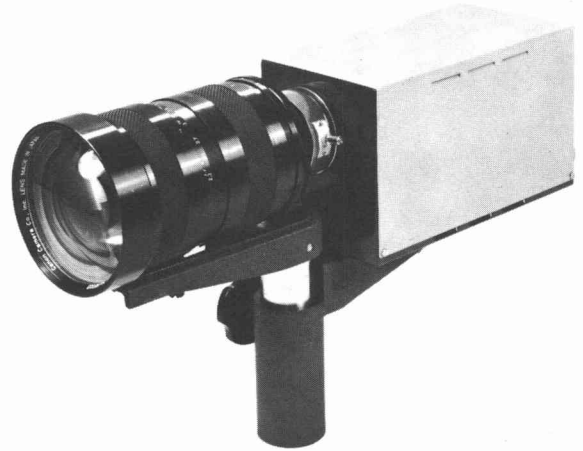
	800 mm Lens	2000 mm Lens
<b>Use:</b>	Image orthicon camera and Canon single-reflex-lens type cameras.	
<b>Type:</b>	Extra-long-telephoto shooting lens using catadioptric system.	
<b>Main Mirror:</b>	1	1
<b>Auxiliary Mirror:</b>	1	1
<b>Lens Speed:</b>	1 : 3.8	1 : 11
<b>Correction Lens:</b>	3 elements, 2 groups	5 elements, 3 groups
<b>Coating:</b>	Mirror part is amber. Correction lens is Canon's exclusive spectra hard coating.	
<b>Effective max. Format Covered:</b>	43.2 mm $\phi$ (24x36 mm).	
<b>Range of Focal Lengths:</b>	800 mm	2000 mm
<b>Angle-of-view:</b>	2° X 1°41'	1° X 40'
<b>Aperture Opening:</b>	3.8, 5.6, 8, 11, 16, 22	11, 16, 22, 32
	Light volume is adjusted with ND filter.	
<b>Focusing:</b>	Performed by moving auxiliary mirror and image orthicon.	
<b>Exterior Measurements:</b>	Refer to diagram.	
<b>Weight:</b>	15 kg (33 lbs.)	11 kg (24.2 lbs.)

## Canon TV Zoom Lens V 12 x 15 15—170 mm 1:2.5 for Vidicon Cameras

Canon TV Zoom Lens V 12 x 15, 15—170 mm 1:2.5 is a manual zoom lens designed for vidicon camera use.

### Specifications:

**Application:** Vidicon camera.  
**Range of Focal Lengths:** 15—170 mm (manual zooming operation system).  
**Angle of View:** 55.4°—5°.  
**Zoom Ratio:** 12×.  
**Lens Speed:** 1 : 2.5.  
**Aperture Opening:** 2.5—22—close. Manual operation system.  
**Number of Lens Elements:** 16 elements in 13 components.  
**Max. Format Covered:** 15.75 mm  $\phi$  (9.45×12.6 mm).  
**Min. Object Distance:** 2.3 m.  
**Object Dimension at Minimum Distance:** 11.2×8.4 cm.  
**Mount:** C-mount (with holder).  
**Size:** 116 $\phi$ ×218.5 mm.  
**Weight:** 2.5 kg.

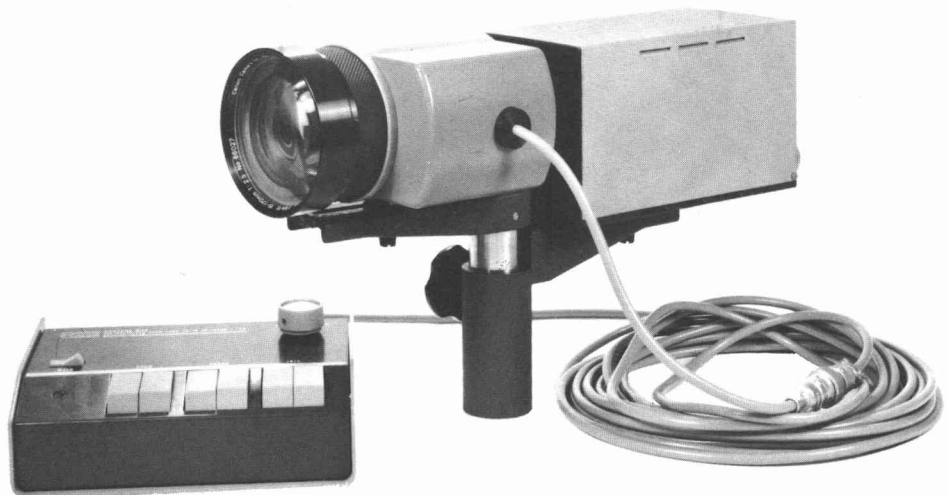


## Canon TV Zoom Lens V 12 x 15 R 15—170 mm 1:2.5 for Vidicon Cameras

Canon TV Zoom Lens V 12 x 15 R, 15—170 mm 1:2.5 is a motorized zoom lens designed for vidicon camera use. The lens speed is as fast as 1:2.5 and the zooming ratio is 12 x. It is operated by push-button system remote control.

### Specifications:

**Application:** Vidicon camera.  
**Range of Focal Lengths:** 15—170 mm.  
**Angle of View:** 55.4°—5°.  
**Zoom Ratio:** 12 ×.  
**Lens Speed:** 1 : 2.5.  
**Aperture Opening:** 2.5—22—close.  
**Number of Lens Elements:** 18 elements in 13 components.  
**Max. Format Covered:** 15.75 mm  $\phi$  (9.45×12.6 mm).  
**Min. Object Distance:** 2.3 m.  
**Object Dimension at Minimum Distance:** 11.2×8.4 cm.  
**Operation:**  
 Time required for Zooming  
 15 to 170 mm:  
 fast 12 sec., slow 18 sec.  
 Time required for Focusing  
 2.3 m to  $\infty$ :  
 fast 18 sec., slow 27 sec.  
 Time required for Closing Aperture  
 from 1 : 2.5: 10 sec.  
**Mount:** C-mount.  
**Size:** 116 $\phi$ ×218.5 mm.  
**Weight:** 3.2 kg.





## Canon TV Zoom Lens V 10 x 15

Canon TV Zoom Lens V 10 x 15 is a manually operating zoom lens designed 1-inch vidicon camera use. It has a zoom ratio of 10 x.

### Specifications:

**Applications:** 1" vidicon camera.  
**Range of Focal Lengths:** 15—150 mm.  
**Angle of View:** 56.1°—6.1°.  
**Zoom Ratio:** 10 X.  
**Lens Speed:** 1 : 2.8.  
**Aperture Opening:** 2.8—22—close.  
**Number of Lens Elements:** 16 elements in 12 components.  
**Max. Format Covered:** 16 mm  $\phi$  (12.8×9.6 mm).  
**Min. Object Distance:** 1.5 m.  
**Object Dimension at Minimum Distance:** at 15 mm: 103×77 cm, at 150 mm: 11×8 cm.  
**Mount:** C-mount.  
**Size:** 80 $\phi$ ×182 mm.  
**Weight:** 1.04 kg.

## Canon TV Zoom Lens V 10 x 15 M, MS

Canon TV Zoom Lens V 10 x 15 M and MS are for 1-inch vidicon camera, which can be operated manually. They have a zoom ratio of 10 x.

Zooming and focusing can be done by the Canon exclusive push and pull rod. Aperture setting can be done by moving iris drive manually.

### Specifications:

**Applications:** 1" vidicon camera.  
**Range of Focal Lengths:** 15—150 mm.  
**Angle of View:** 56.1°—6.1°.  
**Zoom Ratio:** 10 X.  
**Lens Speed:** 1 : 2.8.  
**Aperture Opening:** 2.8—22—close.  
**Number of Lens Elements:** 16 elements in 12 components.  
**Max. Format Covered:** 16 mm  $\phi$  (12.8×9.6 mm).  
**Min. Object Distance:** 1.5 m.  
**Object Dimension at Minimum Distance:** at 15 mm: 103×77 cm, at 150 mm: 11×8 cm.  
**Operation:**  
**Zoom Drive:** Done by push and pull rod.  
 Stroke — 64 mm.  
 Telephoto by pushing — Wide angle by pulling.  
**Mechanical Back Focal Distance:** M: 17.526 mm, MS: 13 mm.  
**Operation Rod Position for Optical Axis and Guide Pin:** M: 43°, MS: 30°.  
**Size:** M: 96 (wide) × 128 (high) × 176 (deep) mm.  
 MS: 96 (wide) × 128 (high) × 180 (deep) mm.  
**Weight:** 2 kg.

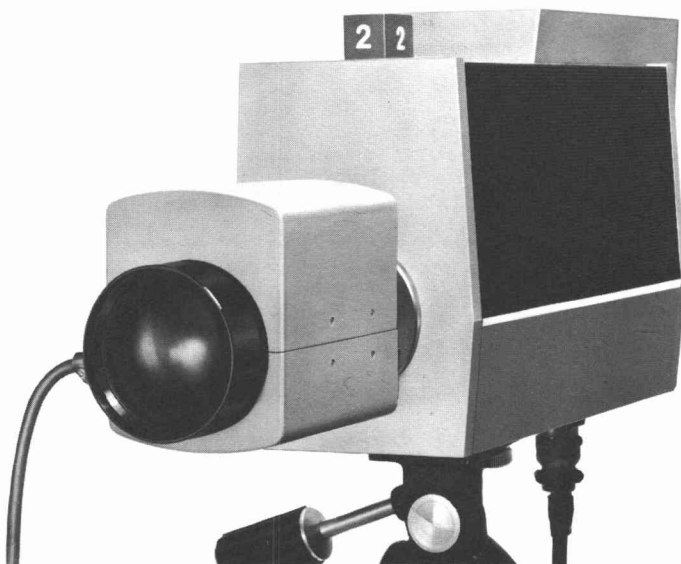


## Canon TV Zoom Lens V 10 x 15 R

Canon TV Zoom Lens V 10 x 15 R is a remote controlled lens for 1-inch vidicon camera. It has a zoom ratio of 10 x. It is possible to zoom, focus, and to set aperture by simply pushing a remote control button.

### Specifications:

**Application:** 1" vidicon camera.  
**Range of Focal Lengths:** 15—150 mm.  
**Angle of View:** 56.1°—6.1°.  
**Zoom Ratio:** 10X.  
**Lens Speed:** 1 : 2.8.  
**Aperture Opening:** 2.8—22—close.  
**Number of Lens Elements:** 16 elements in 12 components.  
**Max. Format Covered:** 16 mm  $\phi$  (12.8×9.6 mm).  
**Min. Object Distance:** 1.5 m.  
**Object Dimension at Minimum Distance:** at 15 mm: 103×77 cm, at 150 mm: 11×8 cm.  
**Operation:**  
 Time required for zooming (15 to 150 mm): Fast 4.5 sec., slow 9 sec.  
 Time required for focusing (1.5 m to  $\infty$ ): Fast 7 sec., slow 14 sec.  
 Time required for closing aperture from 1:2.8: Fast 4.5 sec., slow 9 sec.  
**Mount:** C-mount.  
**Size:** 94×115×128 mm.  
**Weight:** 1.8 kg.

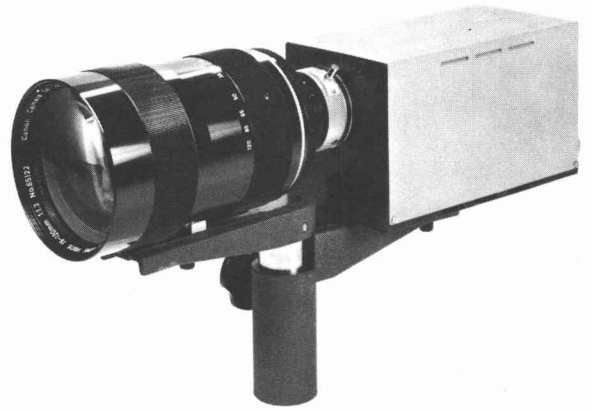


## Canon TV Zoom Lens V 8 x 15 15—120 mm 1:1.3 for Vidicon Cameras

Canon TV Zoom Lens V 8 x 15, 15—120 mm 1:1.3 is a manual zoom lens designed for vidicon camera use. Lens speed is 1:1.3 and zooming ratio is 8 x.

### Specifications:

**Application:** Vidicon camera.  
**Range of Focal Lengths:** 15—120 mm (manual zooming operation system).  
**Angle of View:** 55.4°—7.4°.  
**Zoom Ratio:** 8 X.  
**Lens Speed:** 1 : 1.3.  
**Aperture Opening:** 1.3—22—close (manual operation system).  
**Number of Lens Elements:** 18 elements in 13 components.  
**Max. Format Covered:** 15.75 mm  $\phi$  (9.45×12.6 mm).  
**Min. Object Distance:** 1.5 m.  
**Object Dimension at Minimum Distance:** 11.5×8.6 cm.  
**Mount:** C-mount (special reinforcement system).  
**Size:** 150 $\phi$ ×252.2 mm.  
**Weight:** 3.2 kg.



## Canon TV Zoom Lens V 8 x 15 R 15—120 mm 1:1.3 for Vidicon Cameras

Canon TV Zoom Lens V 8 x 15 R, 15—120 mm 1:1.3 is used on vidicon cameras. It is a remote controlled zoom lens having a zoom ratio of 8 x.

### Specifications:

**Application:** Vidicon camera.  
**Range of Focal Lengths:** 15—120 mm.  
**Angle of View:** 55.4°—7.4°.  
**Zoom Ratio:** 8X.  
**Lens Speed:** 1:1.3.  
**Aperture Opening:** 1.3—22—close.  
**Number of Lens Elements:** 18 elements in 13 components.  
**Max. Format Covered:** 15.75 mm  $\phi$  (9.45 × 12.6 mm).  
**Min. Object Distance:** 1.4 m.  
**Object Dimension at Minimum Distance:** 11.5×8.6 cm.  
**Operation:**  
Time required for Zooming  
15 to 120 mm: fast 10 sec., slow 15 sec.  
Time required for Focusing  
1.4 m to  $\infty$ : fast 15 sec., slow 22.5 sec.  
Time required for Closing  
Aperture from 1:1.3: 10 sec.  
**Mount:** C-mount (special reinforcement system).  
**Size:** 150 $\phi$ ×240 mm.  
**Weight:** 4 kg (lens only).

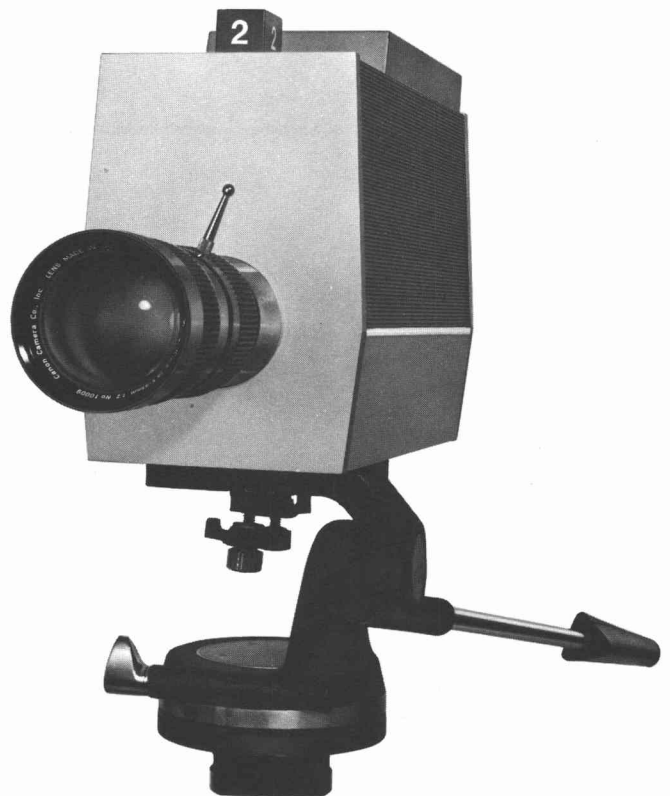


## Canon TV Zoom Lens V 6 x 16

Canon TV Zoom Lens V 6 x 16 is manually operating zoom lens designed for 1-inch vidicon camera. It has a zoom ratio of 6 x.

### Specifications:

**Application:** 1" vidicon camera.  
**Range of Focal Lengths:** 16.5—95 mm.  
**Angle of View:** 51.7°—9.6°.  
**Zoom Ratio:** 6X.  
**Lens Speed:** 1 : 2.  
**Aperture Opening:** 2—22—close.  
**Number of Lens Elements:** 18 elements in 13 components.  
**Max. Format Covered:** 16 mm  $\phi$  (12.8×9.6 mm).  
**Min. Object Distance:** 1.5 m.  
**Object Dimension at Minimum Distance:** at 16.5 mm: 94×70 cm, at 95 mm: 17×13 cm.  
**Mount:** C-mount.  
**Size:** 75 $\phi$ ×177.5 mm.  
**Weight:** 1 kg.





## Canon TV Zoom Lens V 6 x 16 MS

Canon TV Zoom Lens V 6 x 16 MS is for 1-inch vidicon camera, which can be operated manually. It has a zoom ratio of 6 x.

Zooming and focusing can be done by the Canon exclusive push and pull rod. Aperture setting can be done by moving iris drive manually.

### Specifications:

**Application:** 1" vidicon camera.

**Range of Focal Lengths:** 16.5—95 mm.

**Angle of View:** 51.7°—9.6°.

**Zoom Ratio:** 6X.

**Lens Speed:** 1 : 2.

**Aperture Opening:** 2—22—close.

**Number of Lens Elements:** 18 elements in 13 components.

**Max. Format Covered:** 16 mm  $\phi$  (12.8×9.6 mm).

**Min. Object Distance:** 1.5 m.

**Object Dimension at Minimum Distance:** at 16.5 mm: 94×70 cm, at 95 mm: 17×13 cm.

**Operation:**

**Zoom Drive:** Done by push and pull rod.

Stroke: 64 mm.

Telephoto by pushing — Wide angle by pulling.

**Mechanical Back Focal Distance:** 13 mm.

**Operation Rod Position for Optical Axis and Guide Pin:** 30°.

**Size:** 96 (wide) × 128 (high) × 180 (deep) mm.

**Weight:** 2 kg.

## Canon New TV Zoom Lens V6 x 16 R

New Canon TV Zoom lens V6×16 R is a 6× zoom lens with remote control system for use on small-size TV cameras.

### Specifications:

**Application:** For 1-inch vidicon camera.

**Range of Focal Lengths:** 16.5—95 mm.

**Maximum Relative Aperture:** 1:2.

**f/Stops Engraved:** 2 to Closed.

**Zoom Ratio:** 1:6.

**Total Angular Coverage:** 42.4°×32.4° at 16.5 mm, 7.7°×5.8° at 95 mm.

**Maximum Format Covered:** 16 mm  $\phi$ .

**Lens Composition:** 18 elements in 13 components.

**Clear Aperture of Front Glass:** 60 mm  $\phi$ .

**Clear Aperture of Rear Glass:** 20.5 mm  $\phi$ .

**Minimum Object Distance:** 1.5 m.

**Object Dimensions at Minimum Distance:** 94 cm × 70 cm at 16.5 mm, 17 cm × 13 cm at 95 mm.

**Optical Back Focal Distance:** 22.54 mm.

**Mechanical Back Focal Distance:** 17.526 mm.

**Operation:** AC motor drive (30 V), DC motor drive (7 V).

**Input Voltage:** Convertible to AC 100, 115, 150, 220, 240 V.

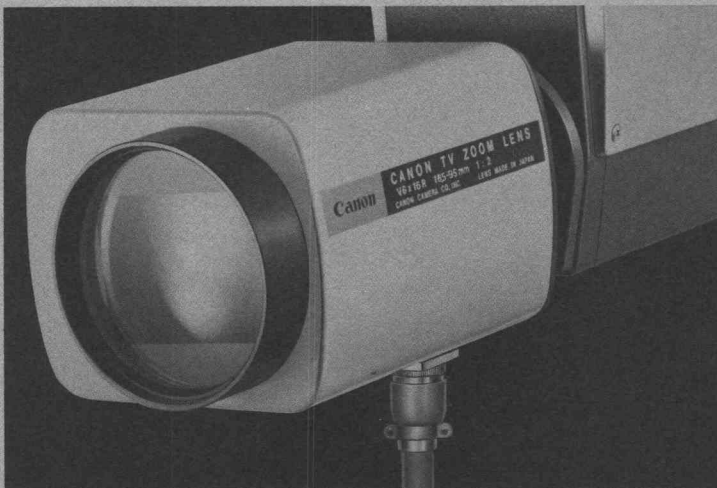
<b>Zooming:</b>	Required time for entire range:	(AC)	Fast	5.5 sec.
			Slow	8 sec.
	Required time for entire range:	(DC)	Fast	4.5 sec.
			Slow	7 sec.
<b>Focusing:</b>	Required time for entire range:	(AC)	Fast	8.5 sec.
			Slow	12.5 sec.
	Required time for entire range:	(DC)	Fast	6.5 sec.
			Slow	10 sec.
<b>Aperture:</b>	Required time for entire range:	(AC)		5 sec.
	Required time for entire range:	(DC)	Fast	3.5 sec.
			Slow	5 sec.

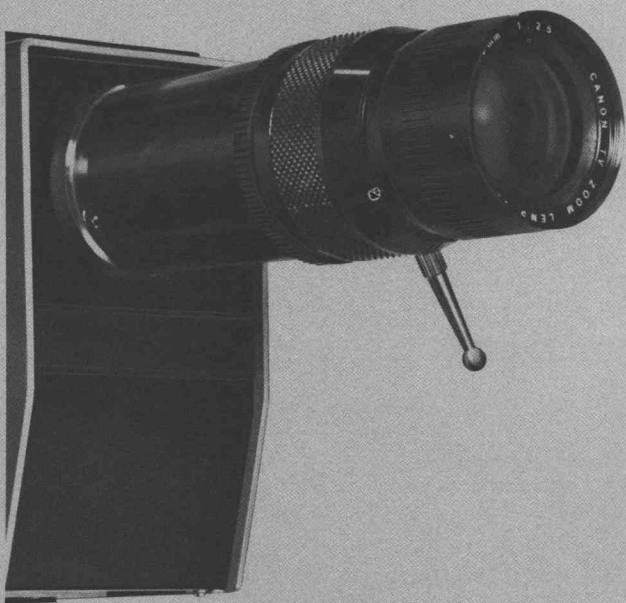
**Mount:** C mount (25.4 mm, 32-thread).

**Overall Length** (front lens to focal plane): 187.2 mm.

**Size:** 100 mm × 126 mm × 178 mm.

**Weight:** 1.8 kg.





## Canon TV Zoom Lens V 5 x 20

Canon TV Zoom Lens V 5 x 20 is manual zoom lens designed for 1-inch vidicon camera. It has a zoom ratio of 5 x.

### Specifications:

**Application:** 1" vidicon camera.  
**Range of Focal Lengths:** 20–100 mm.  
**Angle of View:** 43.6°–9.1°.  
**Zoom Ratio:** 5×.  
**Lens Speed:** 1:2.5 (20–80 mm), 1:2.8 (80–100 mm).  
**Aperture Opening:** 2.5–22.  
**Number of Lens Elements:** 17 elements in 12 components.  
**Max. Format Covered:** 16 mm  $\phi$  (12.8×9.6 mm).  
**Min. Object Distance:** 2 m.  
**Object dimension at minimum distance:** at 20 mm: 64×48 cm, at 100 mm: 13×10 cm.  
**Mount:** C-mount.  
**Size:** 54 $\phi$ ×141.5 mm.  
**Weight:** 490 g.

## Canon TV Zoom Lens V 5 x 20 M, MS

Canon TV Zoom Lenses V 5 x 20 M and MS are for 1-inch vidicon camera, which can be operated manually. They have a zoom ratio of 5 x.

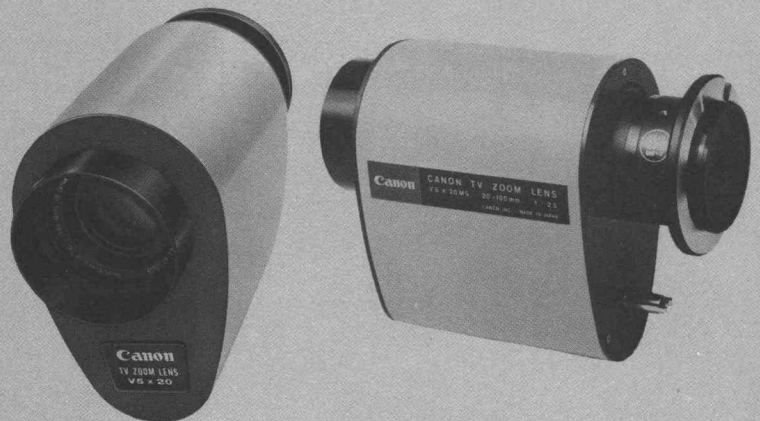
Zooming and focusing can be done by the Canon exclusive push and pull rod. Aperture setting can be done by moving iris drive manually.

### Specifications:

**Application:** 1" vidicon camera.  
**Range of Focal Lengths:** 20–100 mm.  
**Angle of View:** 43.6°–9.1°.  
**Zoom Ratio:** 5×.  
**Lens Speed:** 1:2.5 (20–80 mm), 1:2.8 (80–100 mm).  
**Aperture Opening:** 2.5–22.  
**Number of Lens Elements:** 17 elements in 12 components.  
**Max. Format Covered:** 16 mm  $\phi$  (12.8×9.6 mm).  
**Min. Object Distance:** 2 m.  
**Object Dimension at Minimum Distance:** at 20 mm: 64×48 cm, at 100 mm: 13×10 cm.  
**Operation:**  
**Zoom Drive:**  
 Done by push and pull rod  
 Stroke – 46 mm  
 Telephoto by pushing  
 Wide angle by pulling

**V 5 × 20 M**  
**Mechanical Back Focal Distance:**  
 17.526 mm.  
**Operation Rod Position for Optical Axis and Guide Pin:** 43°.  
**Focus Drive:**  
 Focus by push and pull rod  
 Infinity by turning counter-clockwise  
**Iris Drive:**  
 85.5° manual  
 Turn to clockwise to min. aperture seen from the front lens.  
**Mount:** Compact TV 88 Mount.  
**Size:** 76 (wide) × 123 (high) × 137 (deep) mm.  
**Weight:** 1.3 kg.

**V 5 × 20 M S**  
**Mechanical Back Focal Distance:**  
 13 mm.  
**Operation Rod Position for Optical Axis and Guide Pin:** 30°.  
**Size:** 76 (wide) × 123 (high) × 141 (deep) mm.  
**Weight:** 1.3 kg.

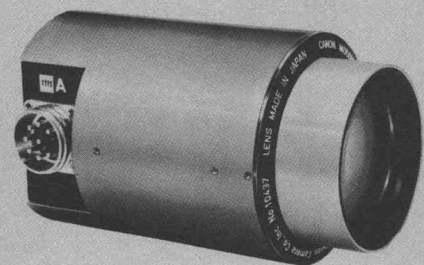


## Canon TV Motorized Zoom Lens TV-16 25–100 mm 1:1.8 for Vidicon Cameras

Canon TV Motorized Zoom Lens TV-16, 25–100 mm, 1:1.8 is a remote controlled zoom lens for use on vidicon cameras. Its zooming ratio is 4 x and boasts the highest speed. It is a small size, light-weight lens in which zooming, focusing and aperture adjustment are remote controlled with a built-in motor.

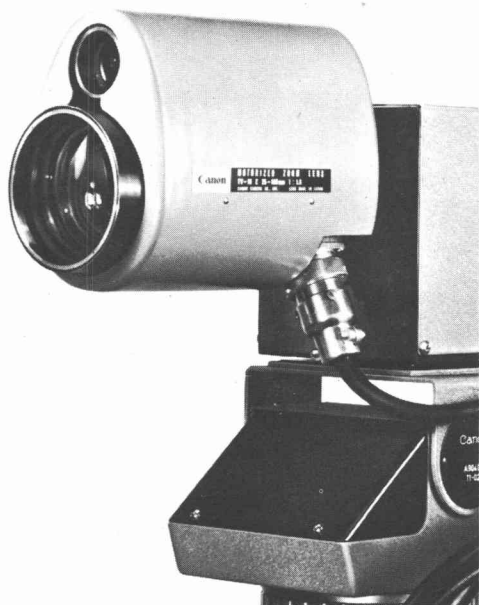
### Specifications:

**Application:** Vidicon cameras.  
**Number of Lens Elements:** 13 elements in 10 components.  
**Max. Format Covered:** 16 mm  $\phi$ .  
**Zoom Ratio:** 4×.  
**Range of Focal Lengths:** 25–100 mm.  
**Aperture Opening:** 1.8–22.  
**Focusing Range:** 2 m –  $\infty$ .  
**Coating:** Spectra coating in which magenta and amber are harmonized.  
**Voltage:** 100, 115, 150, 220, 240 V, 50/60 c/s.  
**Connecting Cord between Lens and Control Box:** Standard: 10 m.  
**Lens:** Max. diameter: 100 mm. Overall length: 178.2 mm.  
**Control Box:** 210 mm wide × 90 mm high × 130 mm deep.  
**Mount:** C-mount. Can be changed to other mounts.  
**Weight:** 1.63 kg.



## Canon Zoom Extenders 1.5 x and 2 x

These Extenders are for attaching onto Canon TV Zoom Lenses 4x, 8x and 12x for vidicon camera which Canon has already been marketing and developing for the world market. Canon Zoom Extenders 1.5x and 2x for common use on Canon TV Zoom Lenses 4x and 12x, and also 1.5x and 2x Zoom Extenders for exclusive use on Canon TV Zoom Lens 8x are available. The magnifications for each extender are 1.5x and 2x.



## Canon TV Motorized Zoom Lens TV-16 E 25—100 mm 1:1.8 for Vidicon Cameras

Canon TV Motorized Zoom Lens TV-16E, 25—100 mm, 1:1.8 is a remote controlled zoom lens coupled with an EE aperture mechanism for use on vidicon cameras.

### Specifications:

**Application:** Remote controlled lens for vidicon cameras.  
**Number of Lens Elements:** 13 elements in 10 components.  
**Max. Format Covered:** 16 mm  $\phi$ .  
**Zoom Ratio:** 4 $\times$ .  
**Range of Focal Lengths:** 25—100 mm (continuously changing magnification).  
**Aperture Opening:** 1.8—22.  
**Focusing Range:** 2 m —  $\infty$ .  
**Coating:** Spectra coating with amber-magenta colors.  
**Built-in Motors:** Three DC motors for zooming, focusing and aperture control.  
**Operation:**  
 Time required for Zooming 25—100 mm: Approx. 2—4 sec. Adjustable.  
 Time required for Focusing 2 m —  $\infty$ : Approx. 4—8 sec. Adjustable.  
**Exposure Adjustment:** Set the illumination on the vidicon surface at a desired range between 20 and 200 luxes.  
**Voltage:** 100, 115, 150, 220, 240 V, 50/60 c/s.  
**Lens and Control Box:** Connecting Cord between Lens and Control Box: Standard: 10 m.  
**Lens Measurements:** Max. diameter 100 mm. Overall length 187 mm.  
**Control Box Measurements:** 220 mm wide  $\times$  69 mm high  $\times$  172 mm long.  
**Mount:** C-mount.  
**Weight:** Lens 1.8 kg. Control Box 2.1 kg.

## Canon TV Zoom Lens C-16 25—100 mm 1:1.8 for Vidicon Cameras or 16 mm Cine Cameras

Canon TV Zoom Lens C-16, 25—100 mm, 1:1.8 is a sharp, large aperture lens designed for use on vidicon cameras. It is a small size, light-weight zoom lens that can also be used on 16 mm cine cameras.

### Specifications:

**Application:** Vidicon and 16 mm cine cameras.  
**Number of Lens Elements:** 13 elements in 10 components.  
**Max. Format Covered:** 16 mm  $\phi$ .  
**Zoom Ratio:** 4 $\times$ .  
**Range of Focal Lengths:** 25—100 mm.  
**Aperture Opening:** 1.8—22.  
**Focusing Range:** 2 m —  $\infty$ .  
**Coating:** Spectra coating with amber-magenta colors.  
**Measurements:**  
 Front Lens: 55.6 mm  $\phi$ .  
 Overall Length: 182 mm (at  $\infty$  position).  
**Mount:** C-mount, Arriflex mount. Other mounts can also be made upon order and subject to detailed technical discussion.  
**Weight:** 1 kg.  
**Accessories:**  
 Close-up lens 2100-2 (1.0 m — 2.1 m).  
 Close-up lens 1100-2 (0.7 m — 1.1 m).

### Close-up Lens

There are two close-up lenses available for TV-16, TV-16 E, C-16 25—100 mm F 1.8 and the specifications are as follows:

Close-up Lenses	Focusing range (distance from front lens to object)
Close-up Lenses 2100-2	1200 mm — 2300 mm
Close-up Lenses 1100-2	900 mm — 1300 mm
Close-up Lenses *2100-2 + 1100-2	700 mm — 900 mm

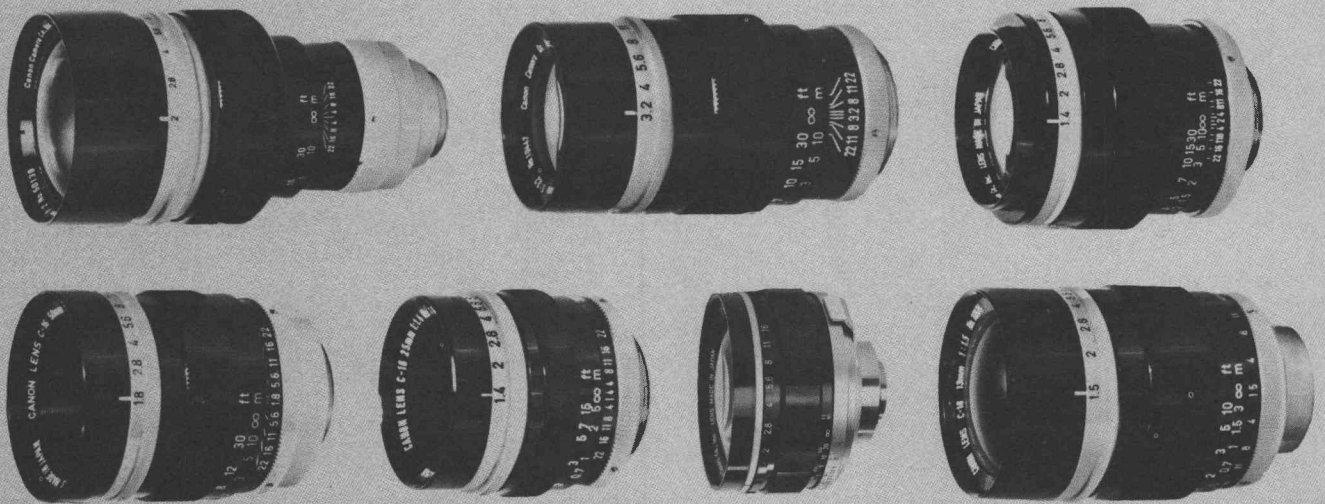
\* When either close-up 2100-2 or 1100-2 is mounted on top of the other.





## C-16 (TV Single Lens)

The Canon C-16 lens is a sharp, large aperture shooting lens for use on Industrial Television Vidicon (TV) and 16 mm movie cameras.



## Canon Lens 50 mm 1:0.95 with C-Mount for Vidicon Cameras

Canon Lens 50 mm 1:0.95 with C-Mount is drawing wide attention as the world's first lens to have broken the 1:1.0 optical barrier. When a C-Mount adapter is attached to this lens, it also becomes very effective as a lens for vidicon camera use. This lens is also used by several companies for special X-ray.

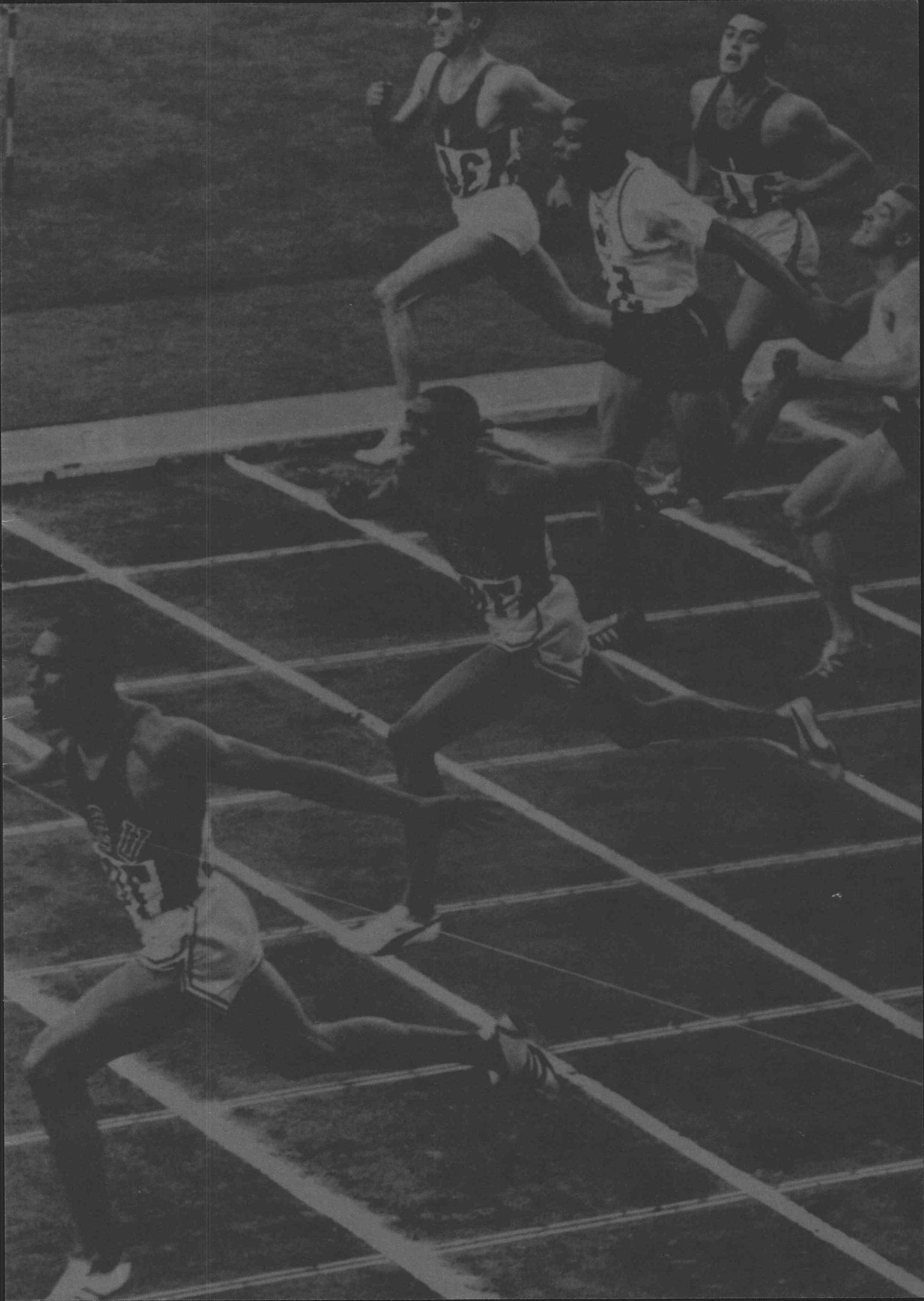
### Specifications:

**Type:** Standard lens.  
**Aperture Opening:** 0.95—16.  
**Distance Scale:** 1 — 20 m — ∞.  
**Filter Size:** 72 mm.

**Number of Lens Elements:**  
 7 elements in 5 components.  
**Weight:** 605 grams.  
**Coating:** Amber.



	13 mm F 1:1.5	25 mm F 1:0.78	25 mm F 1:1.4	50 mm F 1:1.4	50 mm F 1:1.8	75 mm F 1:3.2	100 mm F 1:2
Optical system type built-in method	Retro type Throw-in type	8 elements in 6 components Throw-in type	6 elements in 4 components	6 elements in 4 components Throw-in type	6 elements in 4 components	5 elements in 3 components Throw-in type	4 elements in 4 components Throw-in type
Coating	Amber	Amber G5, 6, 8 are magenta	Amber	Magenta Only G6 is amber	Magenta Only G4 is purple	Magenta	Purple
Helicoid movement	Straight type	Rotating type	Straight type	Straight type	Straight type	Straight type	Straight type
Helicoid rotation angle	132° 0.3 m 125°20' 1 ft 123°00'	204° 0.6 m 197°38' 2 ft 194°02'	152° 0.3 m 148°34' 1 ft 145°46'	152° 0.6 m 145°57' 2 ft 143°15'	160° 0.8 m 156° 3 ft 134°35'	164° 1 m 158°56' 3.5 ft 147°16'	272° 1 m 271°16' 3.5 ft 250°49'
Aperture ring rotation angle (various aperture angles)	106° 1.5—2 21° 2—2.8 18° 5.6×7 2.8—4 15° 10° 4—5.6 12° Equal intervals	106° 0.78—1 15° Under 1 13° Equal intervals	106° 1.4—2 17°48' 2—2.8 16°42' 2.8—4 15° 4—5.6 13°15' 5.6—8 12° 8—11 11° 11—16 10°15' 16—22 10°	104° 13° Equal intervals	102° 1.8—2.8 18° Under 2.8 14° Equal intervals	96°30' 3.2—4 14° Under 4 16°30' Equal intervals	106°30' 2—2.8 19°10' 2.8—4 18°40' 4—5.6 16°10' 5.6—8 15°20' 8—11 12°30' 11—16 12°20' 16—22 12°20'
Helicoid distance scale	m ∞, 3, 1.5, 1, 0.7, 0.5, 0.4, 0.3 Yellow-orange ft 10, 5, 3, 2, 1.5, 1 White	m ∞, 10, 5, 3, 2, 1.5, 1.2, 1, 0.9, 0.8, 0.7, 0.6 Yellow-orange ft 30, 15, 10, 8, 6, 5, 4, 3.5, 3, 2.5, 2 White	m ∞, 5, 2, 1, 0.7, 0.5, 0.4, 0.3 Yellow-orange ft 15, 7, 5, 3, 2, 1.5, 1 White	m ∞, 10, 5, 3, 2, 1.5, 1.2, 1, 0.8, 0.7, 0.6 Yellow-orange ft 30, 15, 10, 7, 5, 4, 3, 2.5, 2 White	m ∞, 10, 5, 3, 2, 1.5, 1.2, 1, 0.9, 0.8 Yellow-orange ft 30, 12, 8, 6, 5, 4, 3.5, 3 White	m ∞, 10, 5, 3, 2, 1.5, 1.2, 1 Yellow-orange ft 30, 15, 10, 7, 5, 4, 3.5 White	m ∞, 10, 5, 3, 2, 1.5, 1.2, 1 Yellow-orange ft 30, 15, 10, 8, 6, 5, 4, 3.5 White
Method of adjusting direction of lens rotation	3-positioning-screw system	C-mount Direct rotation (Spring type)	3-positioning-screw system	3-positioning-screw system	3-positioning-screw system	3-positioning-screw system	3-positioning-screw system
Click stop of aperture	Have	None	Have	Have	Have	Have	Have
Weight	235 gr. (0.51 lbs.)	145 gr. (0.31 lbs.)	90 gr. (0.19 lbs.)	220 gr. (0.48 lbs.)	150 gr. (0.33 lbs.)	110 gr. (0.24 lbs.)	470 gr. (1.03 lbs.)
Accessories	Lens cap 45 mm Dust cap Leather case Various filters 43 mm screw-in type	Lens cap 45 mm Special dust cap Leather case Various filters 43 mm screw-in type	Lens cap 36 mm Dust cap Leather case Various filters 34 mm screw-in type	Lens cap 42 mm Dust cap Leather case Various filters 40 mm screw-in type	Lens cap 42 mm Dust cap Leather case Various filters 40 mm screw-in type	Lens cap 38 mm Dust cap Leather case Various filters 34 mm screw-in type	Lens cap 60 mm Dust cap Leather case Various filters 58 mm screw-in type





## Canon TV Zoom Lens B 7 x 45 F

Canon TV Zoom Lens B 7 x 45 F is for image orthicon camera having 3-inch, 4 1/2-inch diameter. It is designed for telecasting in studio. It is employed in flexible system.



### Specifications:

**Application:** 3", 4 1/2" image orthicon camera.

**Range Focal Lengths:** 45—300 mm.

**Angle of View:** 53.9°—8.7°.

**Zoom Ratio:** 7×.

**Lens Speed:** 1:4.

**Aperture Opening:** 4—22.

**Number of Lens Elements:** 17 elements in 9 components.

**Max. Format Covered:** 46 mm  $\phi$  (36.58×27.43 mm).

**Min. Object Distance:** 1.6 m.

**Object Dimension at Minimum Distance:** At 45 mm: 122×91 cm, at 300 mm: 19×14 cm.

#### Operation:

**Zoom drive:** With flexible outlet 2.42 rev. Long telephoto by turning clockwise.

**Focus drive:** With flexible outlet 2.07 rev. Infinity by turning clockwise seen from camera.

**Iris drive:** 62.5°, turn to clockwise move to min. aperture seen from camera.

**Control:** With flexible shaft, Ever shade, White Company type.

**Mount:** TV 88, RCA, NHK.

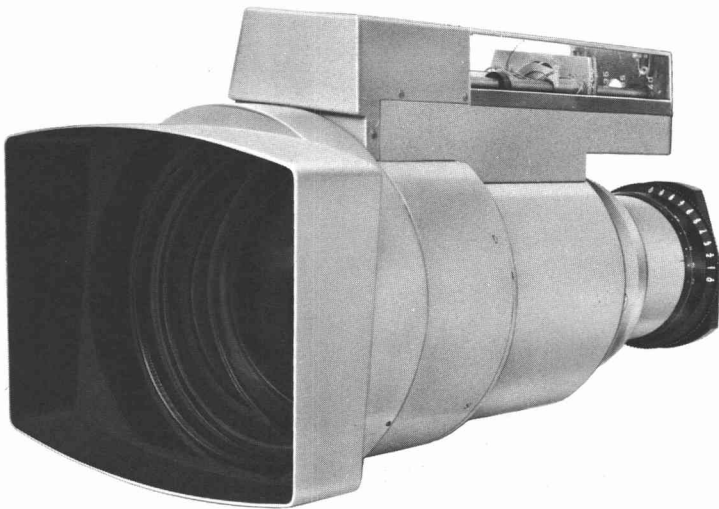
**Size:** 152×190×326 mm.

**Weight:** 6.15 kg (RCA), 6.35 kg (TV 88).

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## Canon TV Zoom Lens B 10 x 40

Canon TV Zoom Lens B 10 x 40 is designed for use with 3-inch, 4 1/2-inch image orthicon camera. It has a zoom ratio of 10x. Focusing can be done by rotation of the operating rod. B 10 x 40 F is employed in "Flexible System".



### Specification (B 10 x 40 F):

**Application:** 3", 4 1/2" image orthicon camera.

**Range of Focal Lengths:** 40—400 mm.

**Angle of View:** 53.9°—5.8°.

**Zoom Ratio:** 10×.

**Lens Speed:** 1:4.

**Aperture Opening:** 4—22—close.

**Number of Lens Elements:** 19 elements in 15 components.

**Max. Formal Covered:** 40.6 mm  $\phi$  (24.38×32.51 mm).

**Min. Object Distance:** 1.7 m.

**Object Dimension at Minimum Distance:** At 40 mm: 125×94 cm, at 400 mm: 12.5×9.4 cm.

#### Operation:

**Zoom drive:** With flexible outlet. 2.5 rev. (900°). Turn to clockwise move to telephoto.

**Focus drive:** With flexible outlet. 2.5 rev. (900°). Turn to clockwise move to infinity.

**Iris drive:** 62.5°. Turn to clockwise move to minimum aperture.

**Mount:** TV 88, PYE, NHK.

**Size:** 172  $\phi$  × 212.5 × 401.5 mm.

**Weight:** 10.64 kg (TV 88).

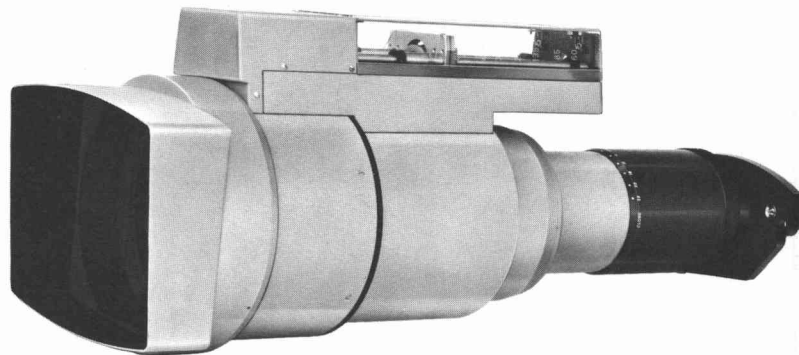
## Canon TV Zoom Lens B 10 x 60

Canon TV Zoom Lens B 10 x 60 is designed for use with image orthicon camera of 3-inch and 4½-inch diameters. It has a zoom ratio of 10 x. B 10 x 60 is designed to use in field telecasting. B 10 x 60 F is employed in flexible system.

Drive	Push and pull rod	Flexible shaft
Zoom	103 mm push to narrow angle	2.5 rev. (90°) turn to clockwise move to narrow angle
Focus	1440° turn to clockwise move to infinity	2.5 rev. (90°) turn to clockwise move to infinity
Iris	75° turn to clockwise move to min. aperture	

### Specifications (B 10 x 60 F):

**Application:** 3", 4½" image orthicon camera.  
**Range of Focal Lengths:** 60—600 mm.  
**Angle of View:** 41.7°—4.4°.  
**Zoom:** 10×.  
**Lens Speed:** 1:5.6.  
**Aperture Opening:** 5.6—32—close.  
**Number of Lens Elements:** 19 elements in 14 components.  
**Max. Format Covered:** 46 mm  $\phi$  (36.58×27.43 mm).  
**Min. Object Distance:** 1.7 m.  
**Object Dimension at Minimum Distance:** At 60 mm: 84×63 cm, at 600 mm: 8.4×6.3 cm.  
**Mount:** TV 88, PYE, NHK.  
**Size:** 172  $\phi$  × 212 × 468 mm.  
**Weight:** 10.6 kg.



## Canon TV Zoom Lens P 6 x 22

Canon TV Zoom Lens P 6 x 22 is for a compact plumbicon color camera. It has a zoom ratio of 6 x.

### Specifications:

**Application:** Compact plumbicon camera.  
**Range of Focal Lengths:** 22.5—128 mm.  
**Angle of View:** 52.1°—9.3°.  
**Zoom Ratio:** 5.7×.  
**Lens Speed:** 1:2.8.  
**Aperture Opening:** 2.8—32—close.  
**Number of Lens Elements:** 20 elements in 15 components.  
**Max. Format Covered:** 21.4 mm  $\phi$ .  
**Min. Object Distance:** 1.5 m.  
**Object Dimension at Minimum Distance:** At 22.5 mm: 87.5× 65.7 cm, at 128 mm: 14.6×10.9 cm.  
**Operation:**  
 Zoom drive: Manually 120°. Telephoto by turning clockwise seen from the lens.  
 Focus drive: Infinity by turning clockwise seen from the lens. Servomatic and rotary type.  
 Iris drive: 110° rev. Turn to clockwise move to min. aperture.  
**Mount:** Flange mount.  
**Size:** 75  $\phi$  × 149.5 mm.  
**Weight:** 1.4 kg.



## Canon TV Zoom Lens P 10 x 20

Canon TV Zoom Lens P 10 x 20 is for a plumbicon camera. It has a zoom ratio of 10 x. Operation can be done by push and pull rod. Three types of zoom extender, 1.5x, 2x, 3x, are attachable.

### Specifications:

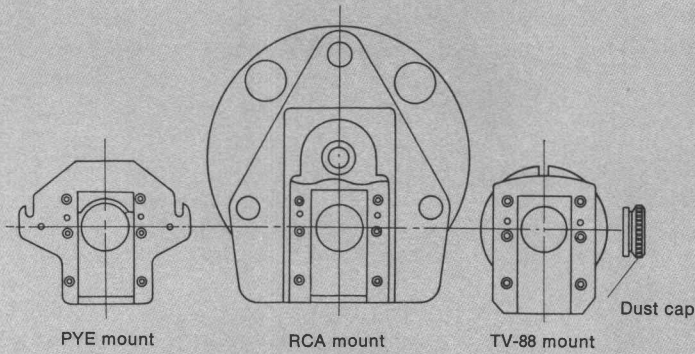
**Application:** Plumbicon color camera.  
**Range of Focal Lengths:** 20—200 mm.  
**Angle of View:** 53.2°—5.8°.  
**Zoom Ratio:** 10×.  
**Lens Speed:** 1:2.2.  
**Aperture Opening:** 2.2—22.  
**Number of Lens Elements:** 16 elements in 13 components.  
**Max. Format Covered:** 21.4 mm  $\phi$  (16.8×12.6 mm).  
**Min. Object Distance:** 1.7 m.  
**Object Dimension at Minimum Distance:** At 20 mm: 120×89 cm, at 200 mm: 12×9 cm.  
**Mount:** Package type mount.  
**Size:** 160  $\phi$  × 243 mm (lens only).  
**Weight:** 5 kg (lens only).



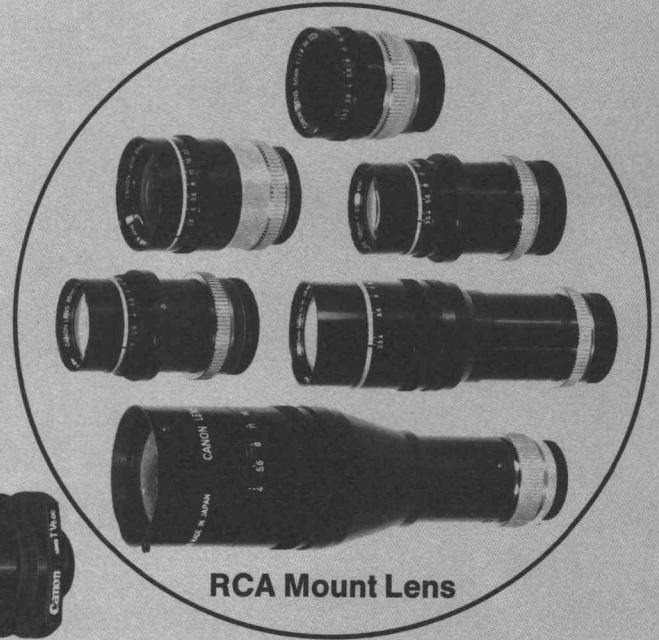
## TV-88, RCA and PYE Mount Lenses

Canon lens TV-88 is used on image orthicon TV cameras. It gives high contrast, and high resolving power. The various aberrations are kept to a minimum, making it ideal for television use.

RCA and PYE mounts are also available. For all of TV-88, RCA and PYE mounts various focal length lenses in the 35—1000 mm range.



### TV-88 Mount Lens



RCA Mount Lens

### Specifications:

Name of Lens	Aperture Scale	Angle-of-View (opposite angle) Effective picture frame (mm) 32.5 × 24.4 (40.6)	Overall Length (with hood) (mm)	Weight (with hood) (kg)
35 mm Reversed telephoto type 1:2.5 4 groups, 8 elements	2, 2.8, 4, 5.6, 8, 11, 16, 22	48°30' × 37°10' (58°50')	113	0.71 (1.56 lbs.)
50 mm Gauss type 1:2 4 groups, 6 elements	1.8, 2, 2.8, 4, 5.6, 8, 11, 16, 22	38°40' × 26°40' (42°20')	107.5	0.66 (1.45 lbs.)
85 mm Modified Gauss type 1:2 4 groups, 5 elements	1.8, 2, 2.8, 4, 5.6, 8, 11, 16, 22	21°40' × 16°20' (26°50')	111	0.77 (1.70 lbs.)
135 mm Telephoto type 1:3.5 3 groups, 4 elements	3.5, 4, 5.6, 8, 11, 16, 22	13°40' × 10°10' (17°00')	226.5	0.88 (1.94 lbs.)
200 mm Telephoto type 1:3.5 5 groups, 7 elements	3.5, 4, 5.6, 8, 11, 16, 22	9°10' × 6°50' (11°20')	295	0.99 (2.18 lbs.)
300 mm Telephoto type 1:4 4 groups, 5 elements	4, 5.6, 8, 11, 16, 22	6°10' × 4°40' (7°50')	350	2.12 (4.66 lbs.)
400 mm Telephoto type 1:4.5 4 groups, 5 elements	4.5, 5.6, 8, 11, 16, 22	4°40' × 3°20' (5°50')	150	2.56 (5.63 lbs.)
600 mm Doublet type 1:5.6 1 group, 2 elements	5.6, 8, 11, 16, 22	3°00' × 2°20' (3°50')	733.5	2.80 (6.16 lbs.)
800 mm Doublet type 1:8 1 group, 2 elements	8, 11, 16, 22	2°20' × 1°42' (2°50')	952.5	2.90 (6.38 lbs.)
1000 mm Doublet type 1:11 1 group, 2 elements	11, 16, 22	1°50' × 1°36' (2°10')	1,096.5	3.00 (6.6 lbs.)

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PUBLICITE  
VISUELLE  
  
FRANCIS  
CATTIN  
GENEVE

900.01.000.0170.7.5

Printed in Switzerland

*ci/6*